

TRANSPORTATION CABINET  
Department of Highways  
Frankfort, Kentucky 40622

PROPOSAL NO. \_\_\_\_\_  
PROJECT CODE NO. 03-0249

LETTING OF APRIL 25, 2003  
Sealed Bids will be received in the  
Division of Contract Procurement  
and/or the Auditorium located on the  
1st Floor of the State Office  
Building until 10:00 A.M., EDT,  
on APRIL 25, 2003 Bids will  
be publicly opened and read at 10:00  
A.M., EASTERN DAYLIGHT TIME.

**PROJECT IDENTIFICATION AND DESCRIPTION:**

OHIO COUNTY, FD04 092 9001 065-084

The Western Kentucky Parkway (PW 9001) from East End Green River Bridge (MP 65.719)  
extending easterly to 1.188 miles east of KY 505 (MP 83.300), a distance of 17.581 miles.

Asphalt Surface and Median Reconstruction.

Status Report Item No. 2-2028.00.

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**GEOGRAPHIC COORDINATES:**

LATITUDE - 37° 28' NORTH

LONGITUDE - 86° 57' WEST

COMPLETION DATE ESTABLISHED FOR PROJECT: SEE SPECIAL NOTES

LIQUIDATED DAMAGES SEE SPECIAL NOTES

**REQUIRED BID PROPOSAL GUARANTY:** Not less than 5% of the total bid.

(Check guaranty submitted: Cashier's Check ☐ Certified Check ☐ Bid Bond ☐)

**BID BONDS WHEN SUBMITTED WILL BE RETAINED WITH THE PROPOSAL.**  
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**PART**

- I SCOPE OF WORK
- II SPECIAL PROVISIONS APPLICABLE TO PROJECT
- III EMPLOYMENT, WAGE AND RECORD REQUIREMENTS
- IV INSURANCE
- V STATEMENT OF INCOMPLETED WORK AND SUBCONTRACTED WORK
- VI BID ITEMS
- VII CERTIFICATION

BID..... ☐ PROPOSAL ISSUED TO: \_\_\_\_\_

SPECIMEN..... ☐ \_\_\_\_\_  
Address City State Zip

PART I

SCOPE OF WORK

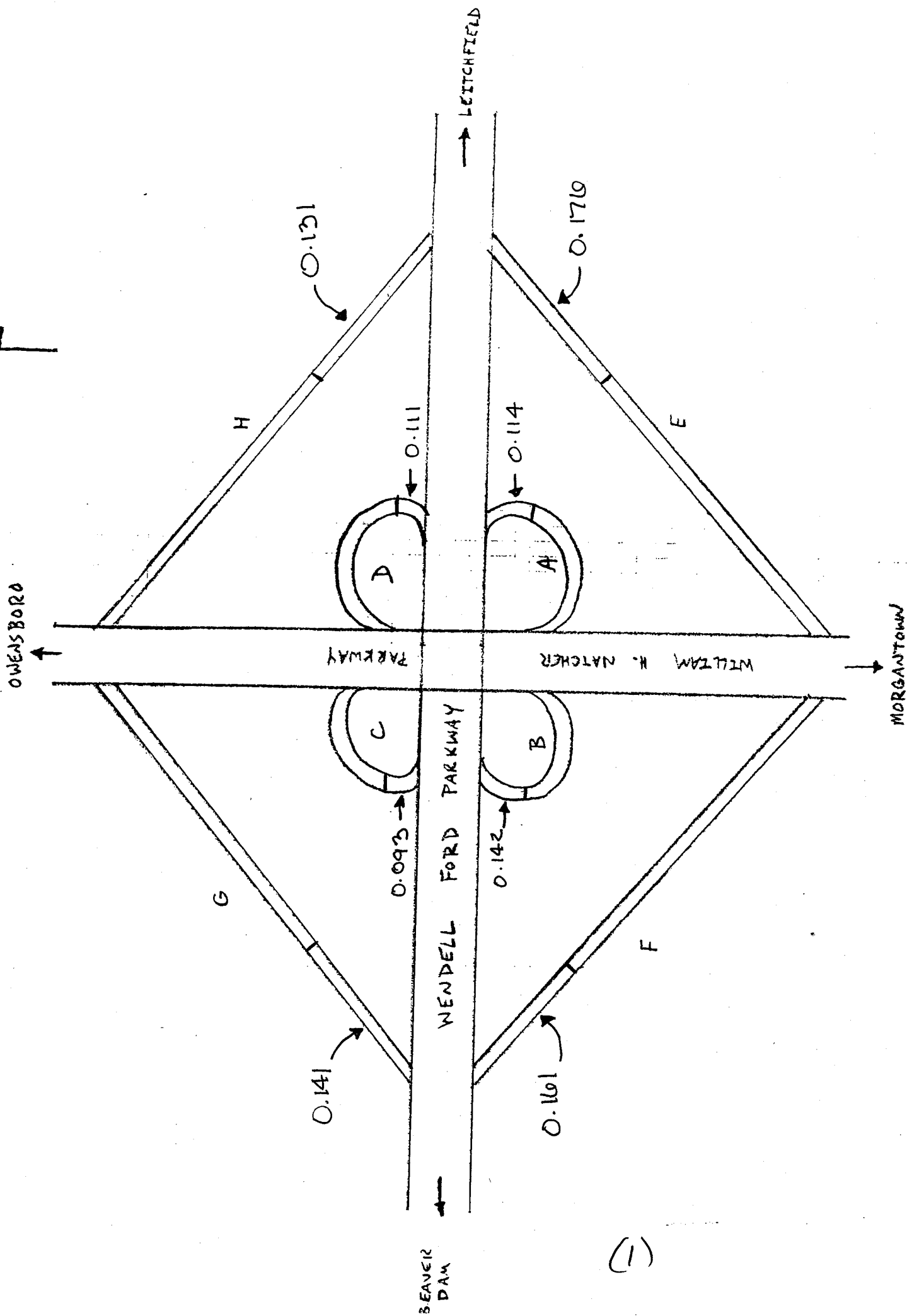
1. Project Detail

a. See Sketch, Location Summary (28 Sheets), Cross Sections (50 Sheets), Typical Section and Details (2 Sheets)	Attached
b. Special Notes Applicable to Project	Attached
c. Supplemental Specifications	Attached
d. Special Note for Acceptance of Density of Longitudinal Joints in Asphalt Surface Pavements (6-4-02)	Attached
e. Special Note for Traffic Control Plan	Attached
f. Special Note for Typical Section Dimensions	Attached
g. Special Note for Asphalt Milling and Texturing	Attached
h. Special Note for Milled Rumble Strips	Attached
i. Special Note for Base Failure Repair	Attached
j. Special Note for Guardrail	Attached
k. Special Note for Edge Key	Attached
l. Special Note for Repair of Exiting Blow-Up	Attached
m. Special Note for Pavement Subsurface Drainage Outlet	Attached
n. Traffic Control for Raised Pavement Marker Installation	Attached
o. Special Notes for Completion Date & Liquidated Damages	Attached
p. Special Notes for Pavement Rehabilitation	Attached
q. Special Notes for Installation of Metal Snowplowable Pavement Markers	Attached
r. Traffic Control for Thermoplastic Pavement Markings	Attached
s. Special Note for Material Transfer Vehicle (1-1-00) [9Y]	*

[illegible]

RAMP DETAIL FOR WILLIAM H NATCHER INTERCHANGE

F004 092-9001-065-084



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**RAMP SUMMARY FOR US 231 INTERCHANGE**

**RAMP A**

LENGTH= 0.310 MILE  
WIDTH= 25 FT.  
SQ. YD= 4547

**RAMP B**

LENGTH= 0.261 MILE  
WIDTH= 25 FT.  
SQ. YD= 3828

**RAMP C**

LENGTH= 0.310 MILE  
WIDTH= 25 FT.  
SQ. YD= 4547

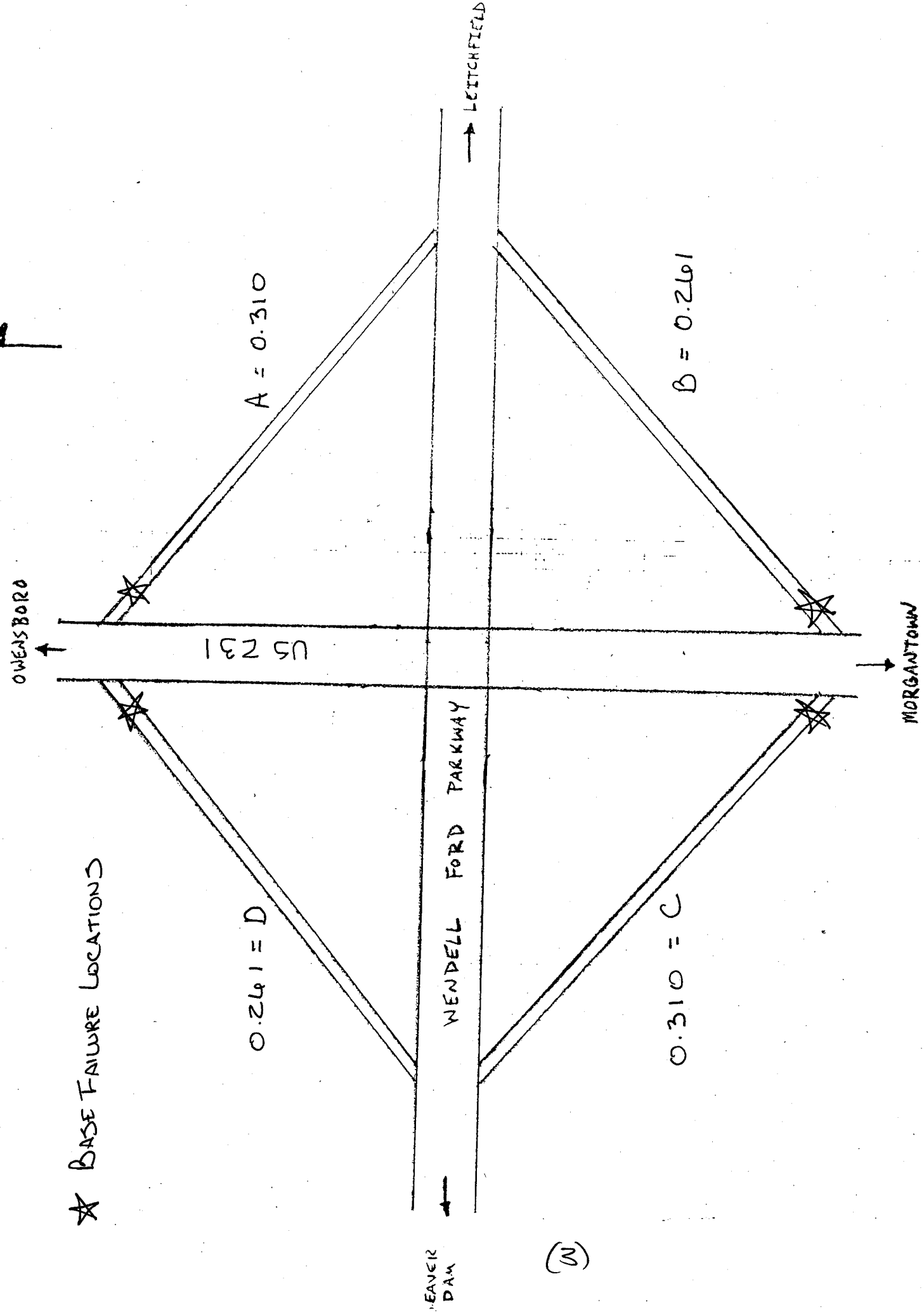
**RAMP D**

LENGTH= 0.261 MILE  
WIDTH= 25 FT.  
SQ. YD= 3828

RAMP DETAIL FOR US 231 INTERCHANGE

FD04-092-9001-065-084

★ BASE FAILURE LOCATIONS



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# MILLING NOTES

BRIDGE # AND CROSSROAD	MILEPOST	DESCRIPTION	WIDTH (FT.)
B93 @ GREEN RIVER (EB)	65.719	MILL 2.25" AT EAST END OF BRIDGE TO 0" AT 225' EAST	38
B93P @ GREEN RIVER (WB)	65.719	MILL 2.25" AT EAST END OF BRIDGE TO 0" AT 225' EAST	38
B108 UNDERPASS @ KY 1245 (EB)	67.320	MILL 2.25" FOR 30' UNDER BRIDGE THEN TAPER TO 0" @ 225' EACH DIRECTION	38
B108 UNDERPASS @ KY 1245 (WB)	67.320	MILL 2.25" FOR 30' UNDER BRIDGE THEN TAPER TO 0" @ 225' EACH DIRECTION	38
B135 UNDERPASS @ RR (EB)	68.524	MILL 2.25" FOR 30' UNDER BRIDGE THEN TAPER TO 0" @ 225' EACH DIRECTION	38
B135 UNDERPASS @ RR (WB)	68.524	MILL 2.25" FOR 30' UNDER BRIDGE THEN TAPER TO 0" @ 225' EACH DIRECTION	38
B112 UNDERPASS @ KY 1245 (EB)	68.653	MILL 2.25" FOR 55' UNDER BRIDGE THEN TAPER TO 0" @ 225' EACH DIRECTION	38
B112 UNDERPASS @ KY 1245 (WB)	68.653	MILL 2.25" FOR 55' UNDER BRIDGE THEN TAPER TO 0" @ 225' EACH DIRECTION	38
B134 @ LEWIS CREEK (EB)	69.752	MILL 2.25" AT EACH END OF BRIDGE TO 0" AT 225' OUT FROM BRIDGE END	38
B134P @ LEWIS CREEK (WB)	69.752	MILL 2.25" AT EACH END OF BRIDGE TO 0" AT 225' OUT FROM BRIDGE END	38
B133 @ KY 369 (EB)	72.433	MILL 2.25" AT EACH END OF BRIDGE TO 0" AT 225' OUT FROM BRIDGE END	38
B133P @ KY 369 (WB)	72.433	MILL 2.25" AT EACH END OF BRIDGE TO 0" AT 225' OUT FROM BRIDGE END	38
B132 @ US 231 (EB)	74.564	MILL 2.25" AT EACH END OF BRIDGE TO 0" AT 225' OUT FROM BRIDGE END	38
B132P @ US 231 (WB)	74.564	MILL 2.25" AT EACH END OF BRIDGE TO 0" AT 225' OUT FROM BRIDGE END	38
B72 @ NATCHER PKWY. (EB)	76.757	MILL 2.25" AT EACH END OF BRIDGE TO 0" AT 225' OUT FROM BRIDGE END	42
B72P @ NATCHER PKWY. (WB)	76.757	MILL 2.25" AT EACH END OF BRIDGE TO 0" AT 225' OUT FROM BRIDGE END	42
B136 UNDERPASS @ ROB ROY RD. (EB)	77.380	MILL 2.25" FOR 30' UNDER BRIDGE THEN TAPER TO 0" @ 225' EACH DIRECTION	38
B136 UNDERPASS @ ROB ROY RD. (WB)	77.380	MILL 2.25" FOR 30' UNDER BRIDGE THEN TAPER TO 0" @ 225' EACH DIRECTION	38
B93 UNDERPASS @ KY 505 (EB)	82.112	MILL 2.25" FOR 30' UNDER BRIDGE THEN TAPER TO 0" @ 225' EACH DIRECTION	38
B93 UNDERPASS @ KY 505 (WB)	82.112	MILL 2.25" FOR 30' UNDER BRIDGE THEN TAPER TO 0" @ 225' EACH DIRECTION	38

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**WENDELL FORD PARKWAY**  
**BASE FAILURE REPAIR**  
**EASTBOUND**

AREA	MILEPOINT	LANE	LENGTH (FT.)	WIDTH (FT.)
1	65.781	DRIVING	8	12
2	65.784	DRIVING	8	12
3	65.794	DRIVING	8	12
4	65.803	DRIVING	8	12
5	65.832	DRIVING	8	12
6	66.230	DRIVING	8	12
7	66.914	DRIVING	8	12
8	67.183	DRIVING	8	12
9	67.790	DRIVING	8	12
10	67.857	DRIVING	8	12
11	68.608	DRIVING	10	12
12	69.845	DRIVING	8	12
13	70.120	DRIVING	8	12
14	70.301	DRIVING	8	12
15	70.472	DRIVING	8	12
16	70.481	DRIVING	25	12
17	74.288	DRIVING	15	12
18	74.365	DRIVING	10	12
19	74.746	DRIVING	8	12
20	74.898	DRIVING	8	12
21	75.041	DRIVING	10	12
22	75.164	PASSING	8	12
23	75.165	DRIVING	20	12
24	75.354	DRIVING	10	12
25	75.810	BOTH	8	24
26	75.899	DRIVING	15	12
27	76.274	DRIVING	8	12
28	76.450	DRIVING	20	12
29	77.250	DRIVING	10	12
30	77.257	DRIVING	10	12
31	78.179	DRIVING	8	12
32	78.226	DRIVING	8	12
33	78.246	DRIVING	8	12
34	78.628	DRIVING	8	12
35	80.497	DRIVING	25	12
36	80.592	DRIVING	8	12
37	81.857	DRIVING	8	12
38	82.530	DRIVING	8	12
39	82.716	DRIVING	8	12
40	83.077	DRIVING	8	12
41	83.182	DRIVING	8	12

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**WENDELL FORD PARKWAY**  
**BASE FAILURE REPAIR**  
**WESTBOUND**

AREA	MILEPOINT	LANE	LENGTH (FT.)	WIDTH (FT.)
1	82.584	DRIVING	8	12
2	81.578	DRIVING	8	12
3	81.416	DRIVING	8	12
4	80.490	DRIVING	8	12
5	80.284	DRIVING	8	12
6	80.187	DRIVING	8	12
7	78.590	DRIVING	8	12
8	77.778	DRIVING	8	12
9	74.343	DRIVING	8	12
10	74.175	DRIVING	15	12

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**WENDELL FORD PARKWAY**

**BASE FAILURE REPAIR**

**US 231 RAMPS**

AREA	LOCATION	LANE	LENGTH (FT.)	WIDTH (FT.)
1	RAMP @ US 231 INTERSECTION	A	80	40
2	RAMP @ US 231 INTERSECTION	B	80	40
3	RAMP @ US 231 INTERSECTION	C	80	40
4	RAMP @ US 231 INTERSECTION	D	80	40

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**GUARDRAIL NOTES  
EASTBOUND**

Milepost 66.906	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 67.875	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 68.183	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 69.004	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 70.473	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 70.758	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 70.905	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 71.638	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 73.116	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 73.238	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 73.589	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 74.015	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 74.416	Remove (2) Type 7 End Treatment, Install (2) Type 1 End Treatment
Milepost 74.544	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 74.850	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 74.982	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 75.655	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 76.131	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 76.384	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 76.746	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 77.022	Remove Type 7 End Treatment, Install Type 1 End Treatment (RAMP)
Milepost 77.291	Remove Type 7 End Treatment, Install Type 1 End Treatment

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**GUARDRAIL NOTES  
EASTBOUND**

Milepost 77.370	Remove Type 7 End Treatment, Install 168 LF of Rail to Connect To Existing Rail 168 ft. to the West of Type 7 End Treatment
Milepost 77.594	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 78.200	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 82.487	Remove Type 7 End Treatment, Install Type 1 End Treatment



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**GUARDRAIL NOTES  
WESTBOUND**

Milepost 82.173	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 81.020	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 80.445	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 79.818	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 79.412	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 78.654	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 77.367	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 77.266	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 77.175	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 76.908	Remove Type 7 End Treatment, Install Type 1 End Treatment (RAMP)
Milepost 76.768	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 75.790	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 75.442	Remove (2) Type 7 End Treatment, Install (2) Type 1 End Treatment
Milepost 75.165	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 74.960	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 74.825	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 74.225	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 73.189	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 72.841	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 71.323	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 70.998	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 70.616	Remove Type 7 End Treatment, Install Type 1 End Treatment

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**GUARDRAIL NOTES  
WESTBOUND**

Milepost 70.253	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 68.310	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 67.135	Remove Type 7 End Treatment, Install Type 1 End Treatment
Milepost 66.846	Remove Type 7 End Treatment, Install Type 1 End Treatment

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**MEDIAN BOX LOCATIONS**  
**(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
4854 + 50	65.867	WB	EB	Begin Project Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
4858	65.901	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
4862 + 50	65.993	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 8 Lf of 15 inch Culvert Pipe Construct Junction Box
4867	66.083	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 8 Lf of 15 inch Culvert Pipe Construct Junction Box
4871 + 50	66.164	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
4874	66.210	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch

**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
4876 + 50	66.255	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
4879	66.305	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
4902	66.739	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 7 Lf of 15 inch Culvert Pipe Construct Junction Box
4905	66.796	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 7 Lf of 15 inch Culvert Pipe Construct Junction Box
4908	66.853	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 7 Lf of 15 inch Culvert Pipe Construct Junction Box

**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
4911 + 50	66.919	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 Lf of 15 inch Culvert Pipe Construct Junction Box
4916	67.006	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 7 Lf of 15 inch Culvert Pipe Construct Junction Box
4921	67.103	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 7 Lf of 15 inch Culvert Pipe Construct Junction Box
4925	67.179	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 7 Lf of 15 inch Culvert Pipe Construct Junction Box
4925 + 50	67.265	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 8 Lf of 15 inch Culvert Pipe Construct Junction Box

**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
equation	67.694		EB	New Median Box Inlet	See Cross-section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 80 LF of 15 inch Culvert Pipe
4958 + 95	68.128			36" Cross Drain	See Cross-section Construct Median Box Inlet Type 5C - 15 inch Tie Box Inlet to existing 36 inch Crossdrain
	68.186			U-TURN	Install 50 LF of 15" Culvert pipe under U-Turn Construct 2 Slope Box Inlet-Outlet - 15 inch
	68.295		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 58 LF of 15 inch Culvert Pipe
	68.813		WB	30" Cross Drain	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Tie Box Inlet to existing 30 inch Crossdrain
	69.083		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 91 LF of 15 inch Culvert Pipe

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**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
	69.455		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 73 LF of 15 inch Culvert Pipe
5053 + 50	69.911	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 LF of 15 inch Culvert Pipe Construct Junction Box
5058	69.999	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 LF of 15 inch Culvert Pipe Construct Junction Box
5062 + 20	70.075	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 5 LF of 15 inch Culvert Pipe Construct Junction Box
5066 + 50	70.155	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 Lf of 15 inch Culvert Pipe Construct Junction Box

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**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
5071	70.237	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
5081	70.431	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
5085	70.506	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 Lf of 15 inch Culvert Pipe Construct Junction Box
5087 + 34	70.550	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 Lf of 15 inch Culvert Pipe Construct Junction Box
5092	70.635	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
5096 + 50	70.719	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch



**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
5106 + 50	70.905	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 7 Lf of 15 inch Culvert Pipe Construct Junction Box
5111	70.991	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 7 Lf of 15 inch Culvert Pipe Construct Junction Box
5116	71.075	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
	71.149			U-TURN	Install 50 LF of 15" Culvert pipe under U-Turn Construct 2 Slope Box Inlet-Outlet - 15 inch
5125 + 50	71.255	EB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
5130	71.337	EB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch

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# **MEDIAN BOX LOCATIONS (EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
5134	71.412	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 8 Lf of 15 inch Culvert Pipe Construct Junction Box
5137 + 50	71.479	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 Lf of 15 inch Culvert Pipe Construct Junction Box
5146	71.640	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 5 Lf of 15 inch Culvert Pipe Construct Junction Box
5150 + 50	71.725	EB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 4 Lf of 15 inch Culvert Pipe Construct Junction Box
5160 + 67	71.918			54" Cross Drain Equivalent	See Cross-section Construct Median Box Inlet Type 5C - 15 inch Tie Box Inlet to existing 54 inch Crossdrain

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# **MEDIAN BOX LOCATIONS (EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
5236 + 77	72.155		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 78 LF of 15 inch Culvert Pipe
	72.815		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 58 LF of 15 inch Culvert Pipe
	73.160		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 59 LF of 15 inch Culvert Pipe
	73.359			30" Cross Drain	See Cross-section Construct Median Box Inlet Type 5C - 15 inch Tie Box Inlet to existing 30 inch Crossdrain
	73.715		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 62 LF of 15 inch Culvert Pipe
	74.095		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 79 LF of 15 inch Culvert Pipe

**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
	74.564			US 231	
	74.936			U-TURN	Install 50 LF of 15" Culvert pipe under U-Turn Construct 2 Slope Box Inlet-Outlet - 15 inch
	76.443			New Median Box Inlet for overhead sign	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct 270 LF of 15 inch Culvert Pipe and extend pipe down median to a Slope Box Inlet- Outlet
	77.095		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 87 LF of 15 inch Culvert Pipe
	77.265		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 59 LF of 15 inch Culvert Pipe
	77.410		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 52 LF of 15 inch Culvert Pipe

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**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
	77.785		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 74 LF of 15 inch Culvert Pipe
	78.175		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 59 LF of 15 inch Culvert Pipe
	78.695		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 72 LF of 15 inch Culvert Pipe
	78.915		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 67 LF of 15 inch Culvert Pipe
	79.253			24 " Cross Drain	See Cross-section Construct Median Box Inlet Type 5C - 15 inch Tie Box Inlet to existing 24 inch Crossdrain
5548	79.509	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
5561 + 50					

(22)

# **MEDIAN BOX LOCATIONS (EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
5565 + 50	79.584	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 7 Lf of 15 inch Culvert Pipe Construct Junction Box
5569 + 50	79.660	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 7 Lf of 15 inch Culvert Pipe Construct Junction Box
5573	79.726	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 Lf of 15 inch Culvert Pipe Construct Junction Box
5576 + 50	79.793	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 Lf of 15 inch Culvert Pipe Construct Junction Box
5581	79.878	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 Lf of 15 inch Culvert Pipe Construct Junction Box

(23.)

**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
5583 + 25	79.921	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 Lf of 15 inch Culvert Pipe Construct Junction Box
5594 + 50	80.130			24" Cross Drain	See Cross-section Construct Median Box Inlet Type 5C - 15 inch Tie Box Inlet to existing 24 inch Crossdrain
5611 + 59	80.457			42" Cross Drain	See Cross-section Construct Median Box Inlet Type 5C - 15 inch Tie Box Inlet to existing 42 inch Crossdrain
	80.855		EB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 67 LF of 15 inch Culvert Pipe
	81.350		WB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 90 LF of 15 inch Culvert Pipe
5670	81.563			24" Cross Drain	See Cross-section Construct Median Box Inlet Type 5C - 15 inch Tie Box Inlet to existing 24 inch Crossdrain

(24)

**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
5682 + 50	81.801	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 5 Lf of 15 inch Culvert Pipe Construct Junction Box
5686 + 50	81.876	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 4 Lf of 15 inch Culvert Pipe Construct Junction Box
5695	82.037	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 5 Lf of 15 inch Culvert Pipe Construct Junction Box
	82.111		WB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct 58 LF of 15 inch Culvert Pipe and run east to Median Box Inlet (15") @ Milepost 82.122
5699 + 50	82.122	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Junction Box connecting 15" Culvert Pipe from New Median Box Inlet @ Milepost 82.111

(25)



**MEDIAN BOX LOCATIONS  
(EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
5703 + 50	82.198	WB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch Construct 6 Lf of 15 inch Culvert Pipe Construct Junction Box
5708	82.278	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
5712 + 50	82.358	WB	Cross Drain	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
5716 + 25	82.430	WB	EB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
	82.678		WB	New Median Box Inlet	See Cross-Section Construct Median Box Inlet Type 5C - 15 inch Construct Slope Box outlet Type 1 - 15 inch Construct 84 LF of 15 inch Culvert Pipe
	83.058	EB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch

(26)

# **MEDIAN BOX LOCATIONS (EXISTING AND NEW)**

STATION NO.	MILEPOINT	BOX SIDE	OUTLET SIDE	DESCRIPTION	COMMENTS
	83.115	EB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
	83.200	EB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch
	83.285	EB	WB	Median Box Inlet (15")	See Cross-Section Remove existing Median Box Inlet Construct Median Box Inlet Type 5C - 15 inch

(27)

**RAMP SUMMARY FOR WILLIAM H NATCHER INTERCHANGE**

**RAMP A**

LENGTH= 0.114 MILE  
WIDTH= 22.5 FT.  
SQ. YD= 1518

**RAMP B**

LENGTH= 0.142 MILE  
WIDTH= 22.5 FT.  
SQ. YD= 1875

**RAMP C**

LENGTH= 0.093 MILE  
WIDTH= 22.5 FT.  
SQ. YD= 1218

**RAMP D**

LENGTH= 0.111 MILE  
WIDTH= 22.5 FT.  
SQ. YD= 1465

**RAMP E**

LENGTH= 0.176 MILE  
WIDTH= 22.5 FT.  
SQ. YD= 2323

**RAMP F**

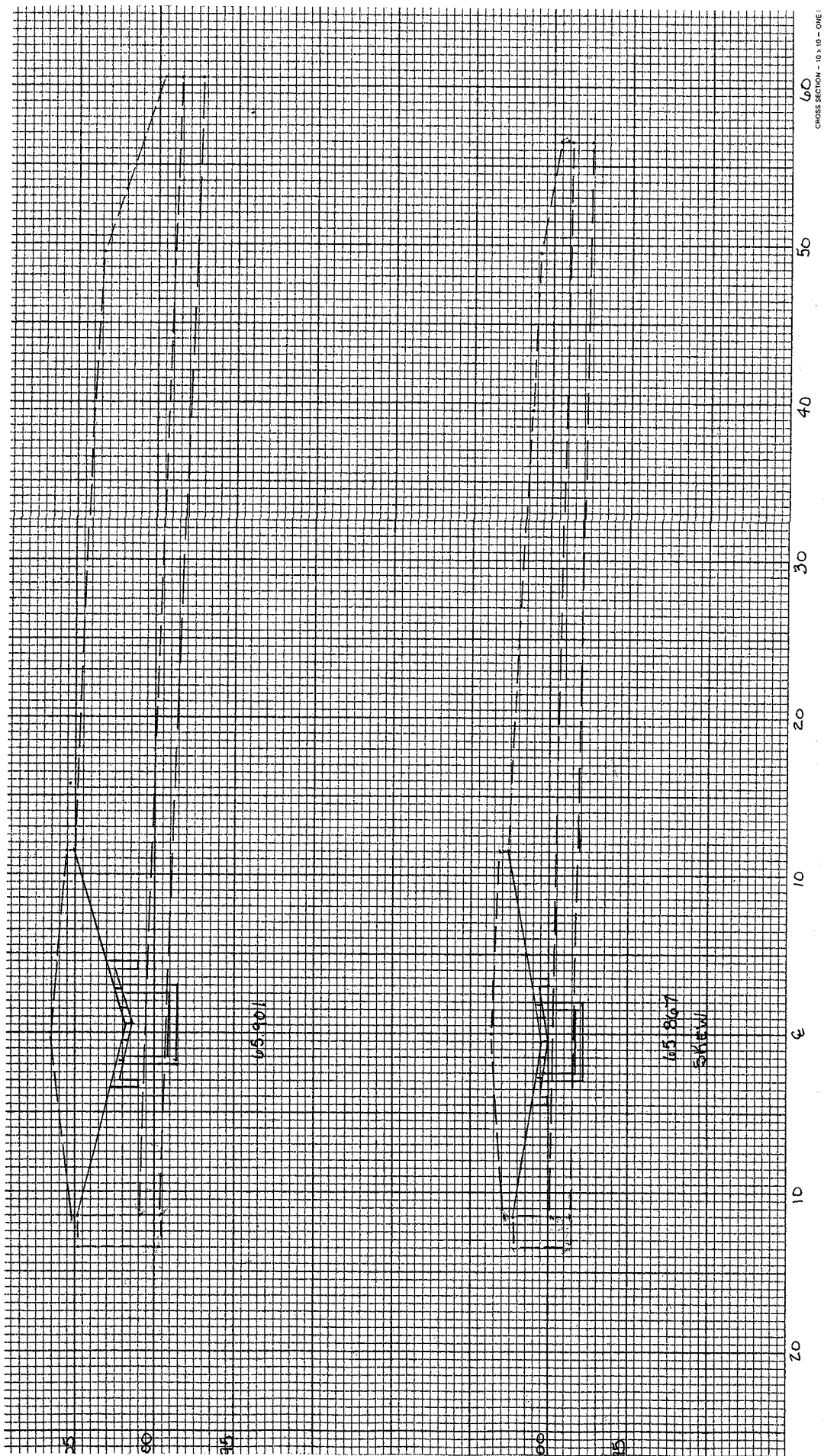
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**RAMP G**

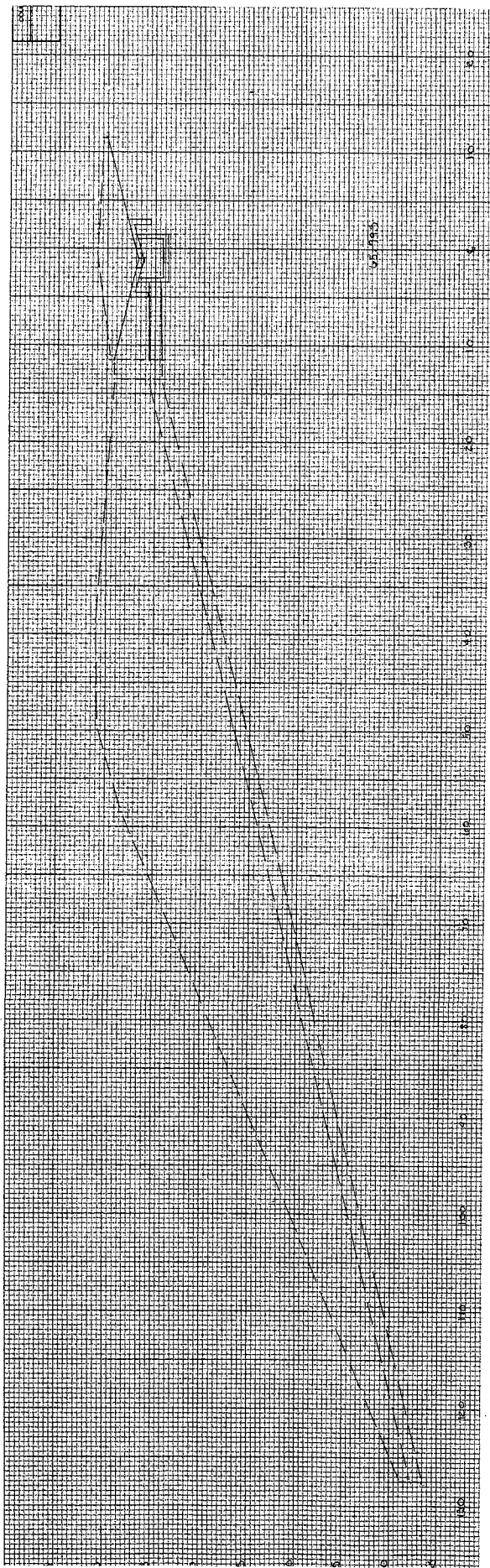
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**RAMP H**

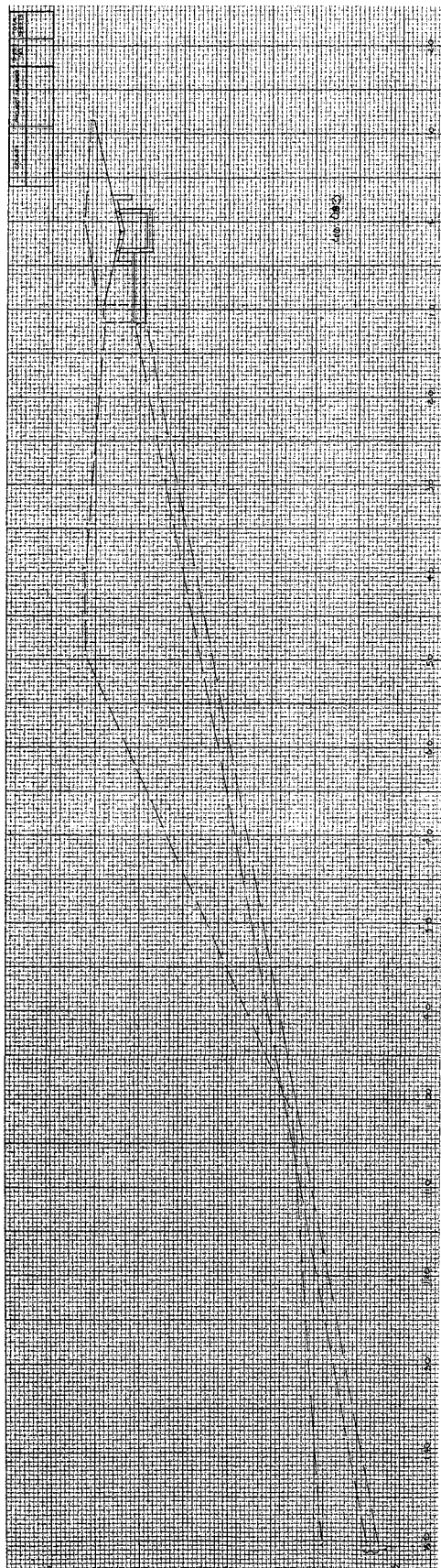
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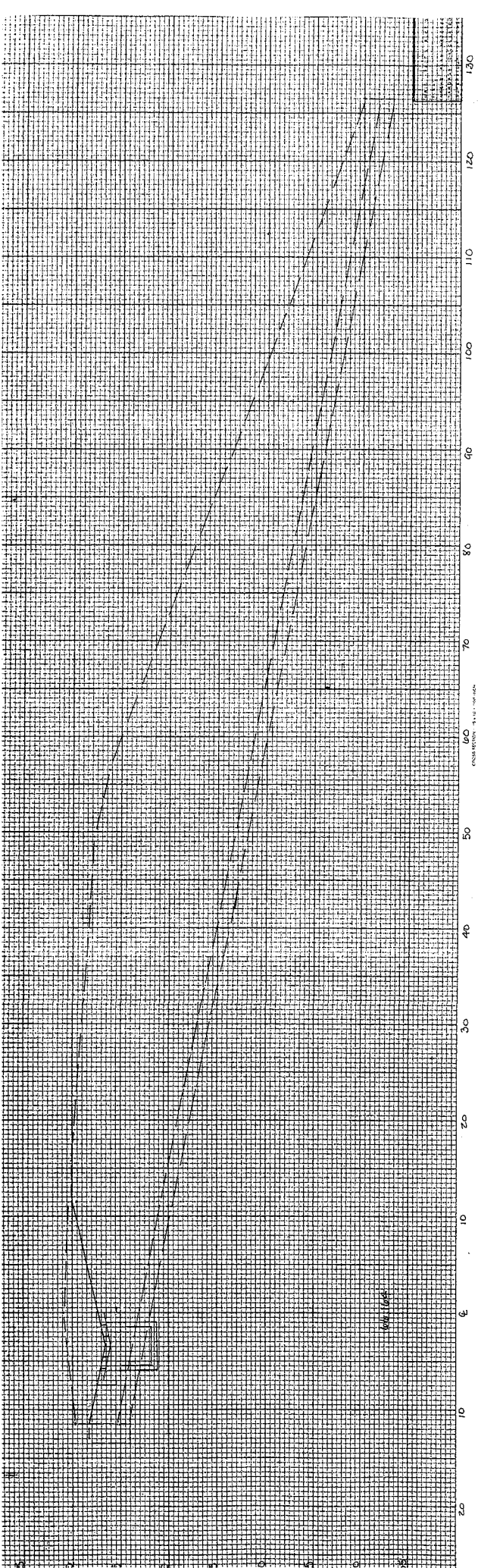
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(2)



(3)



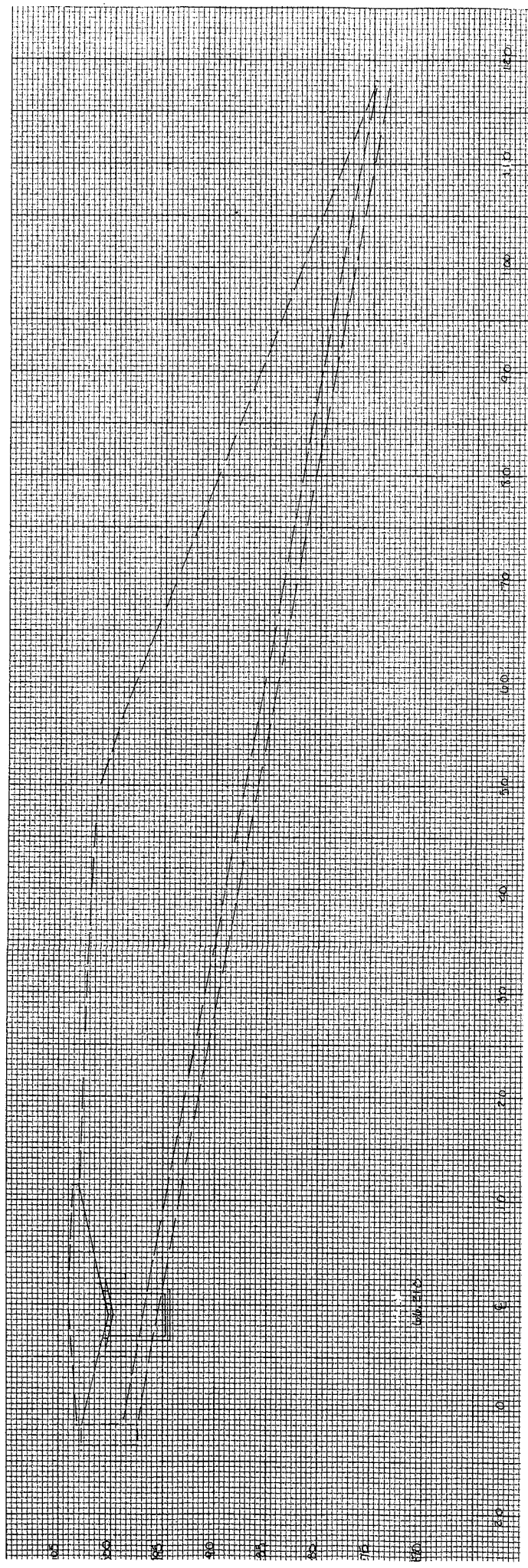
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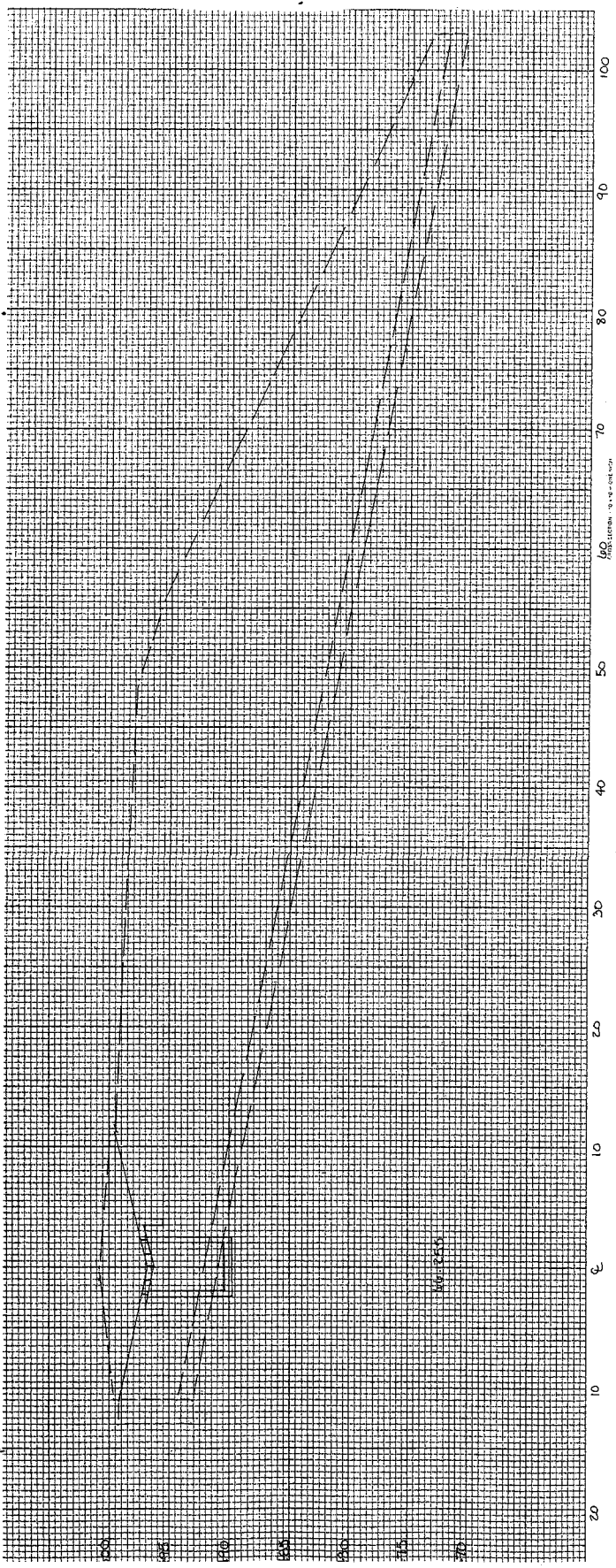
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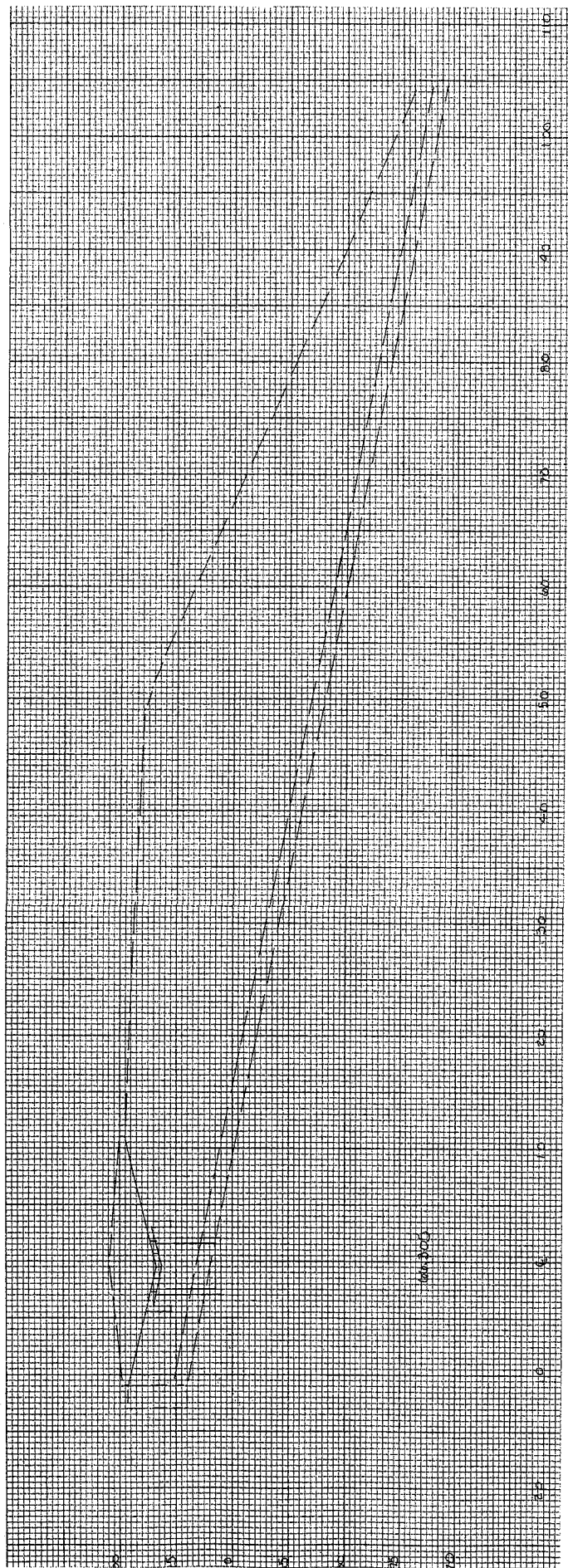


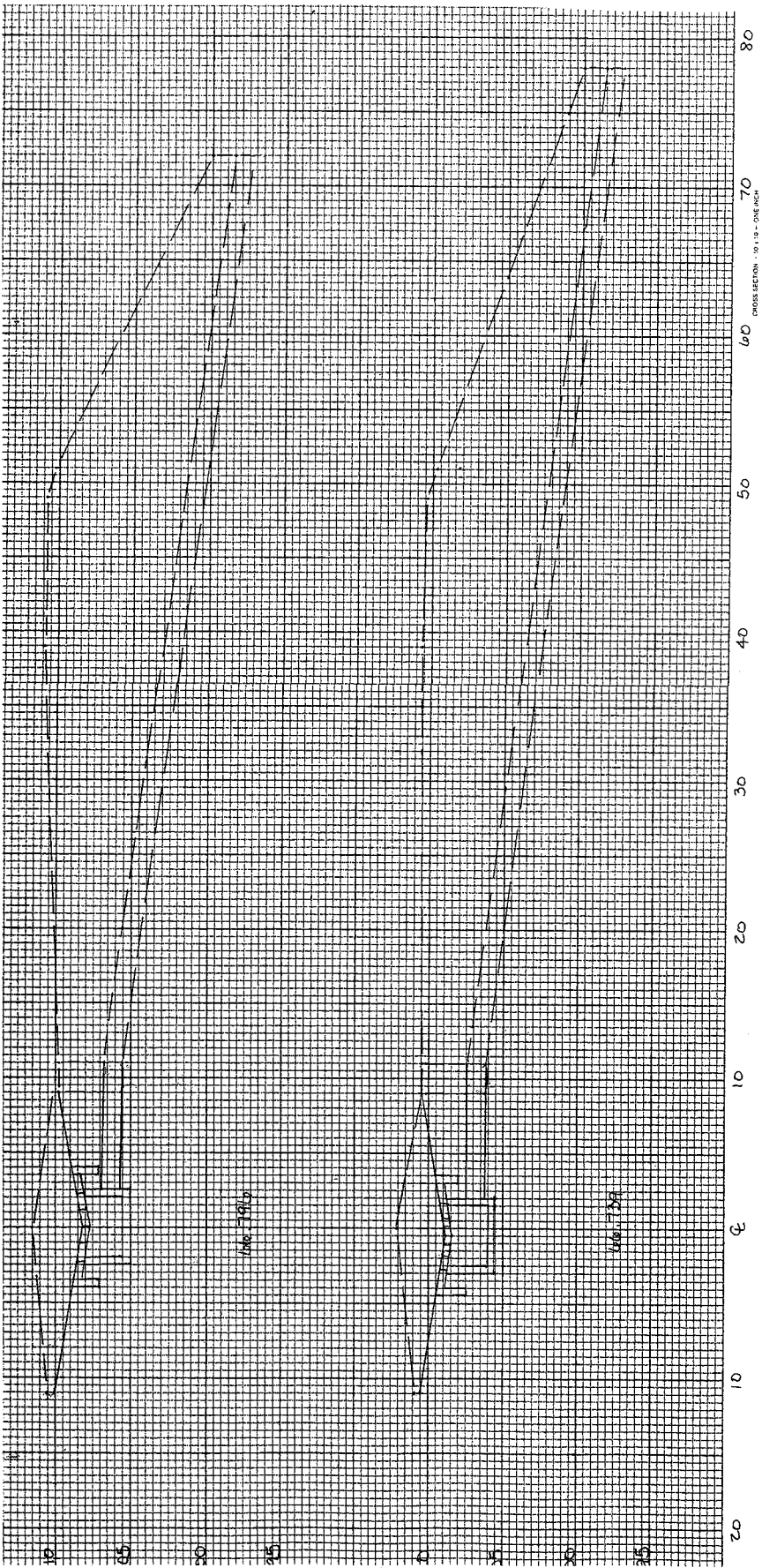
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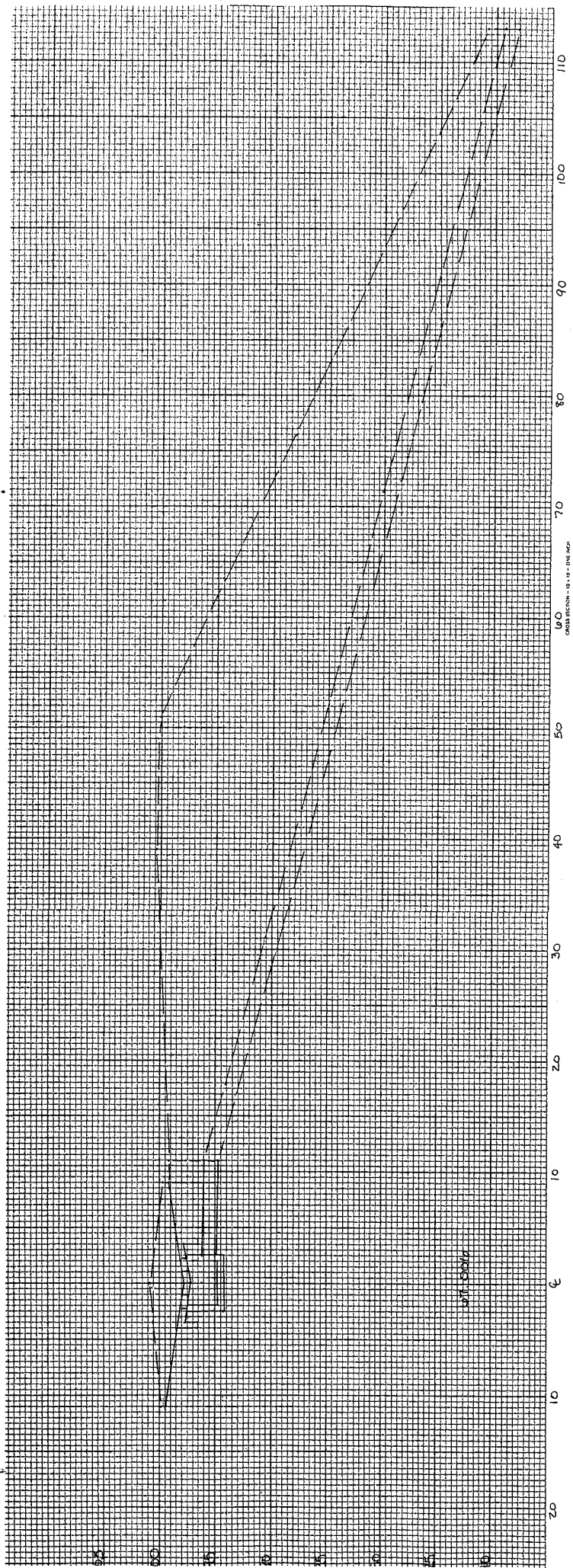


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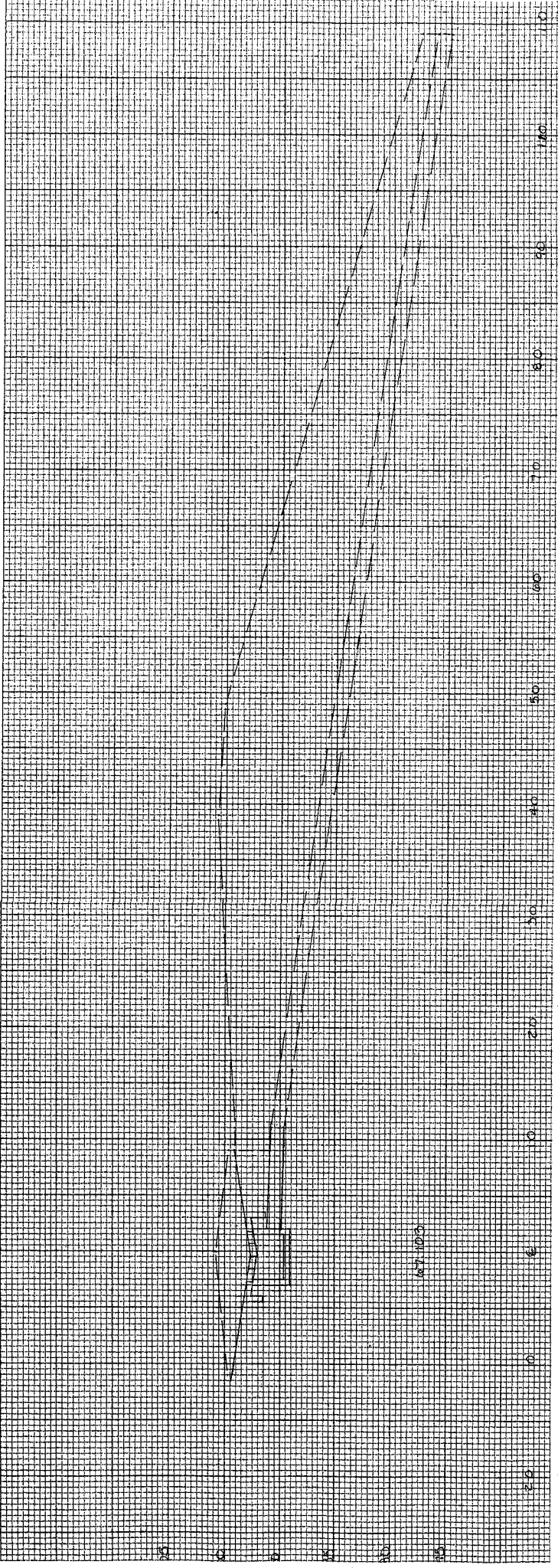
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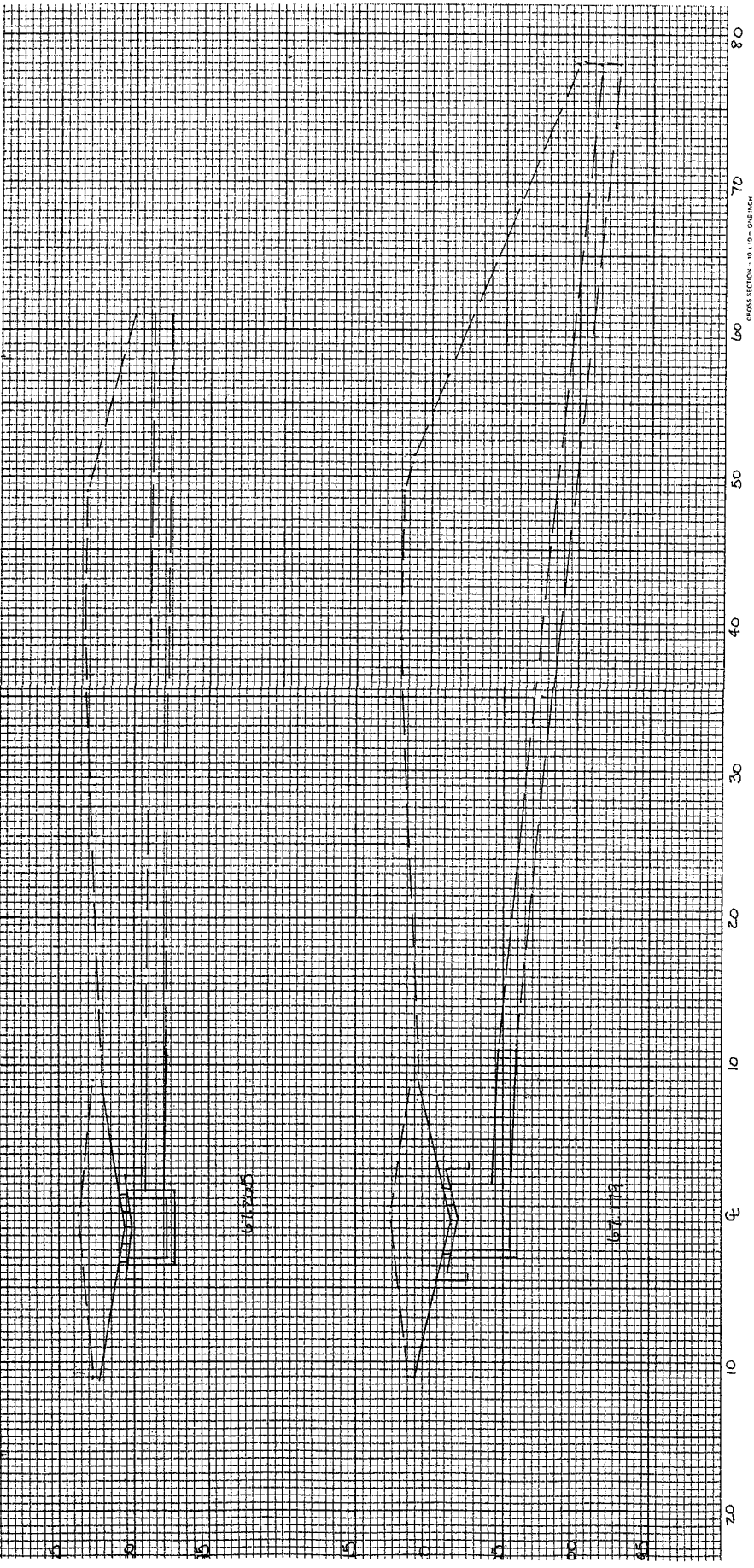
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TO 100  
DIETZEN

PRINTED IN U.S.A.

PERFECT COPY ACTION  
TO 100  
DIETZEN



(11)



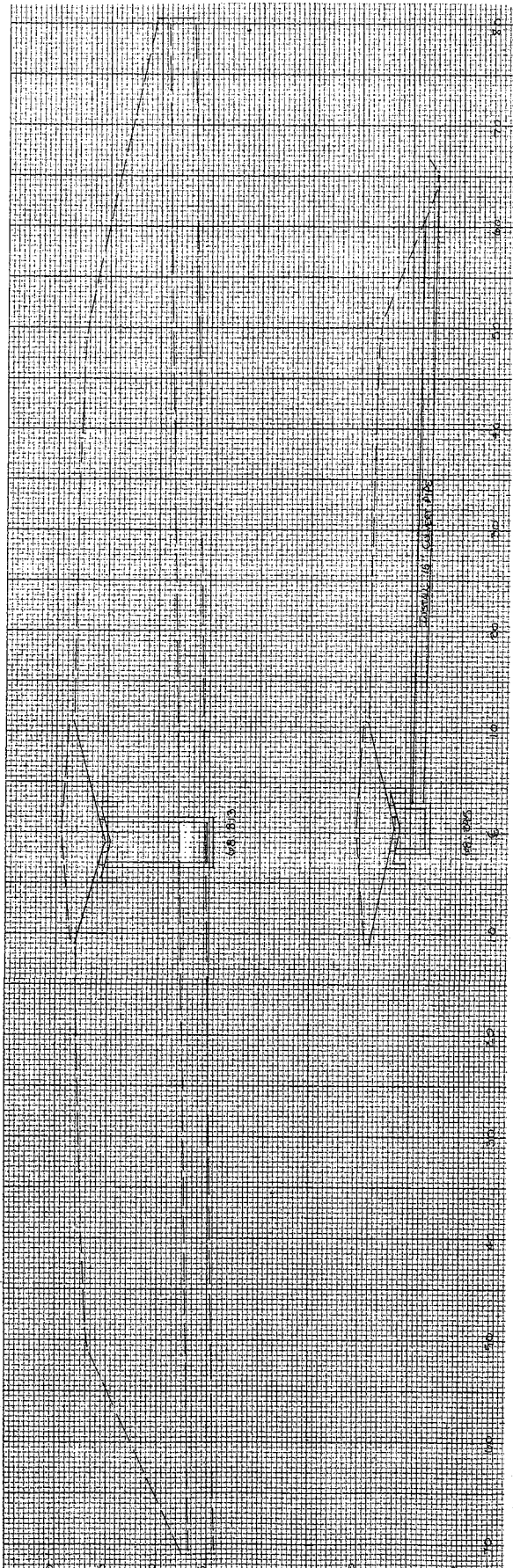


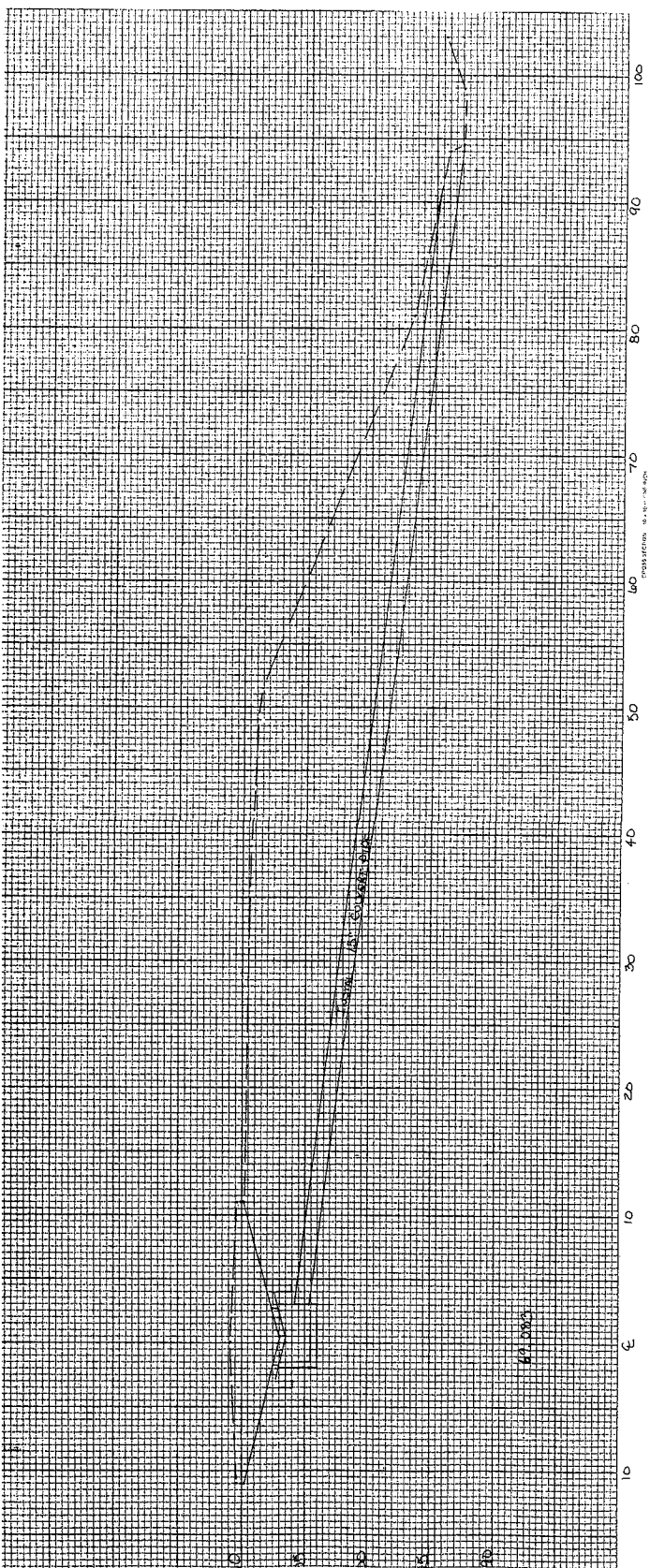


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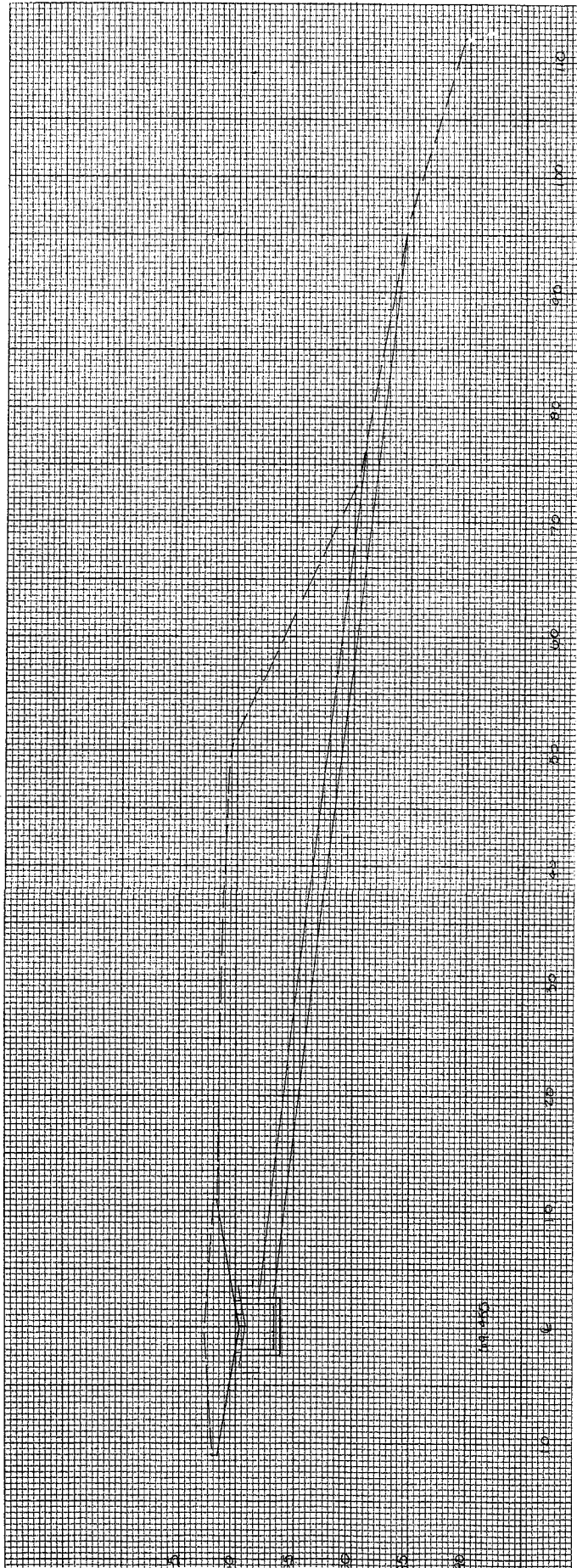
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1000 W. 10TH ST.  
DETROIT, MI 48207

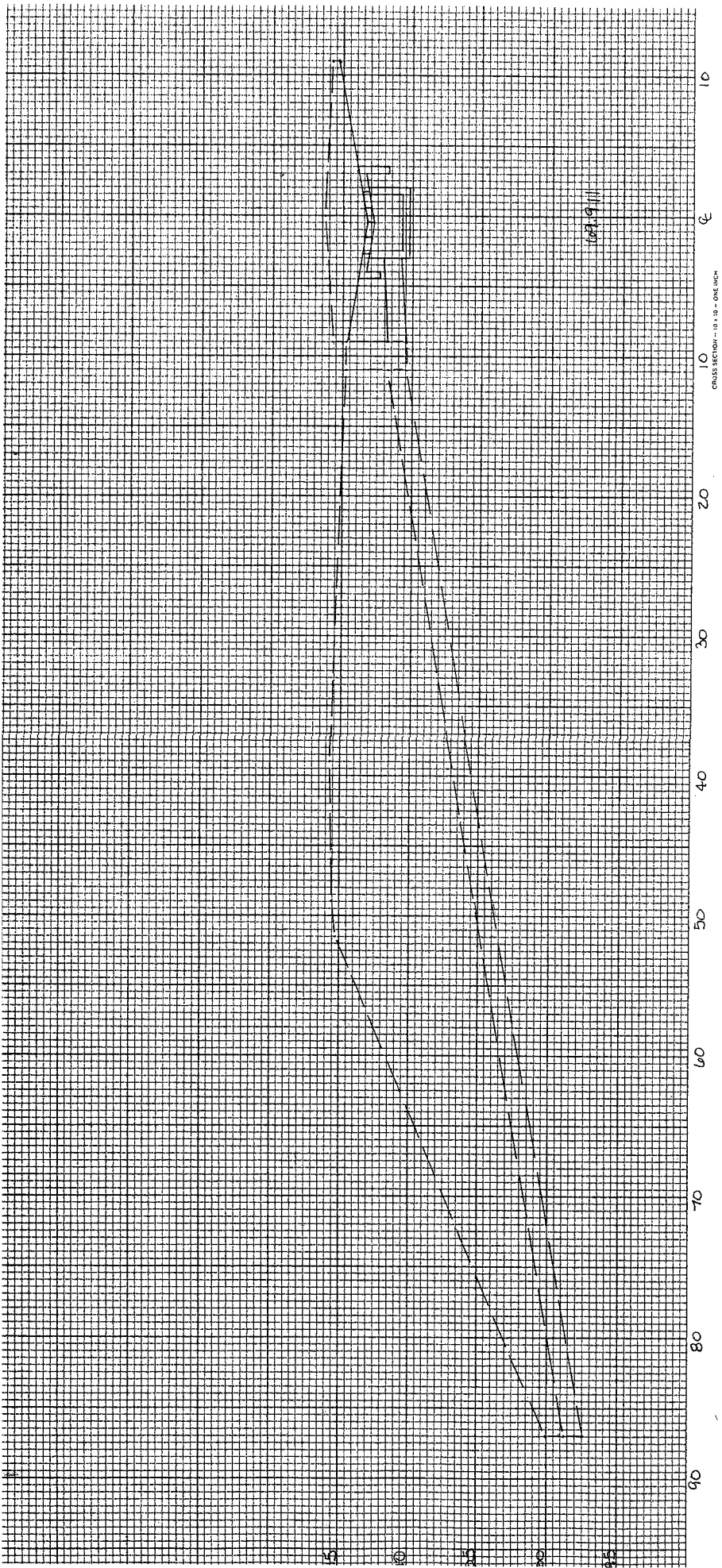
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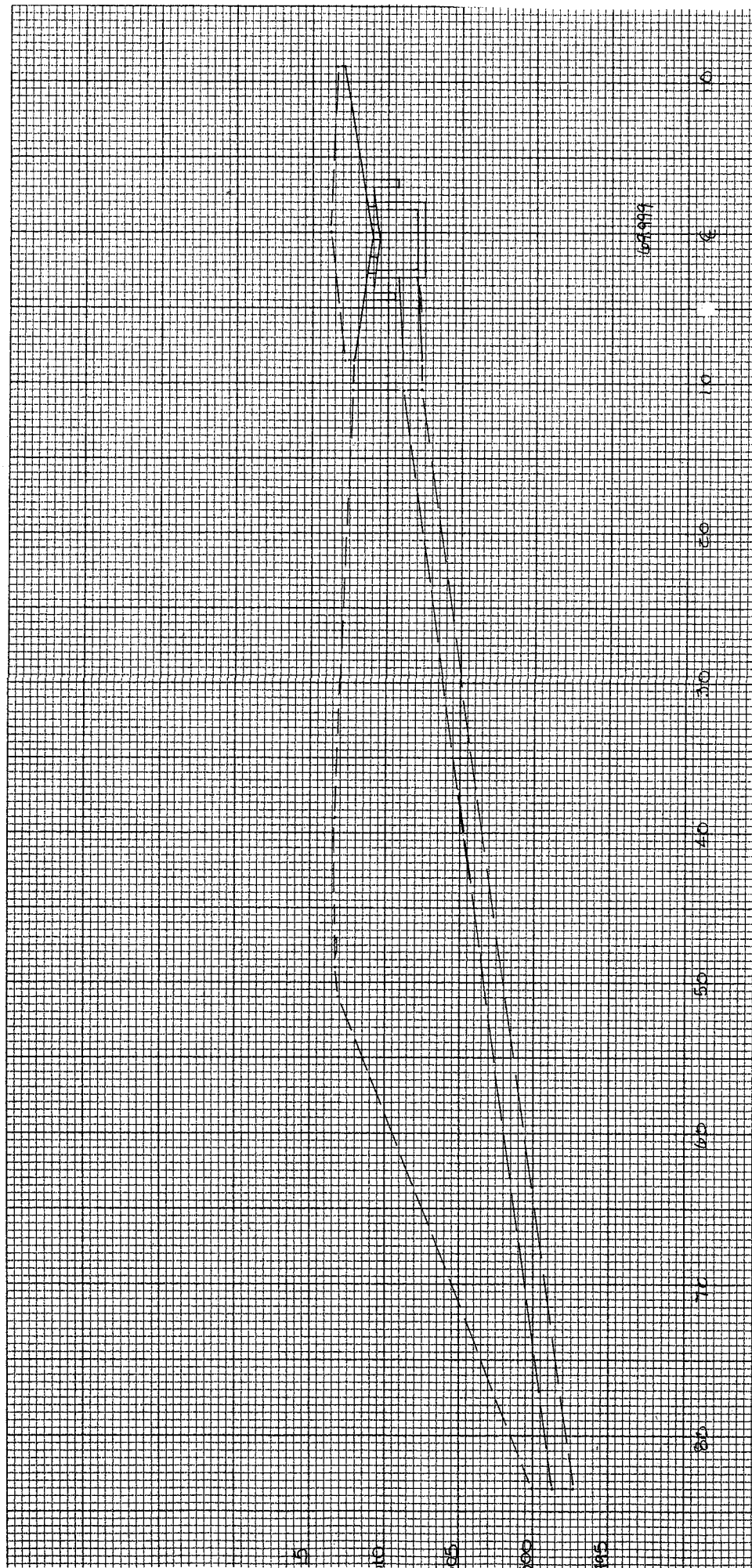


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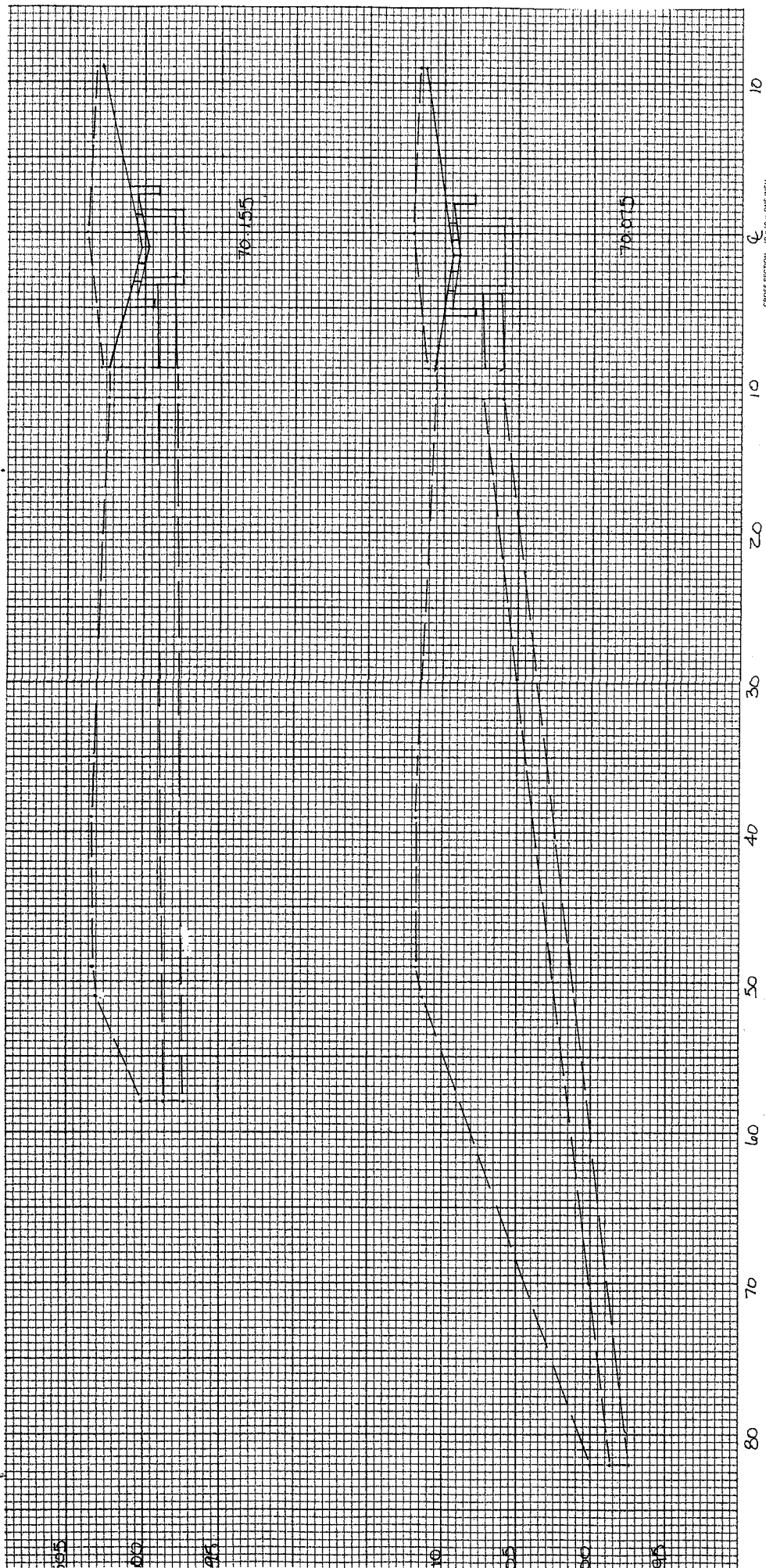




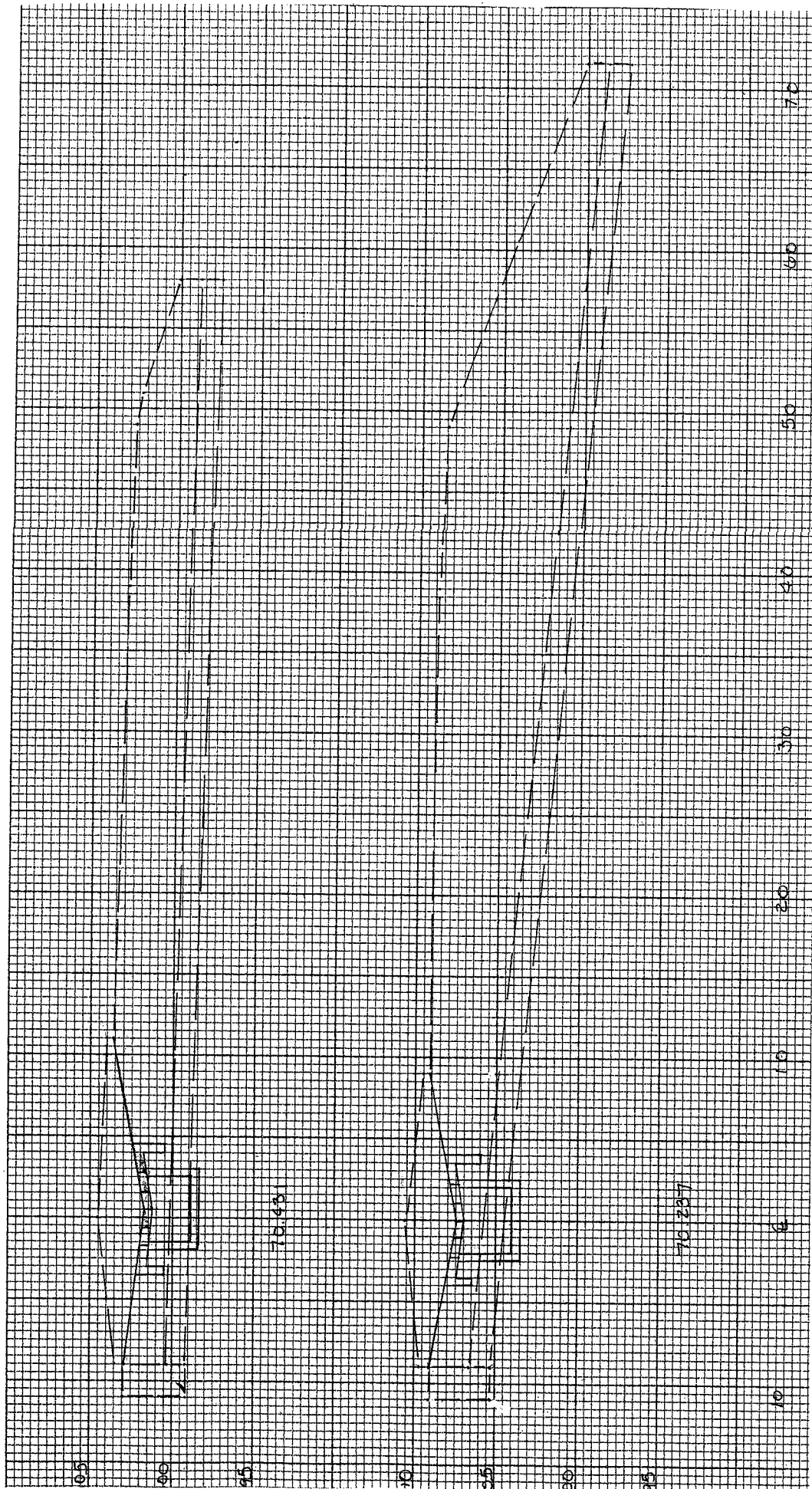
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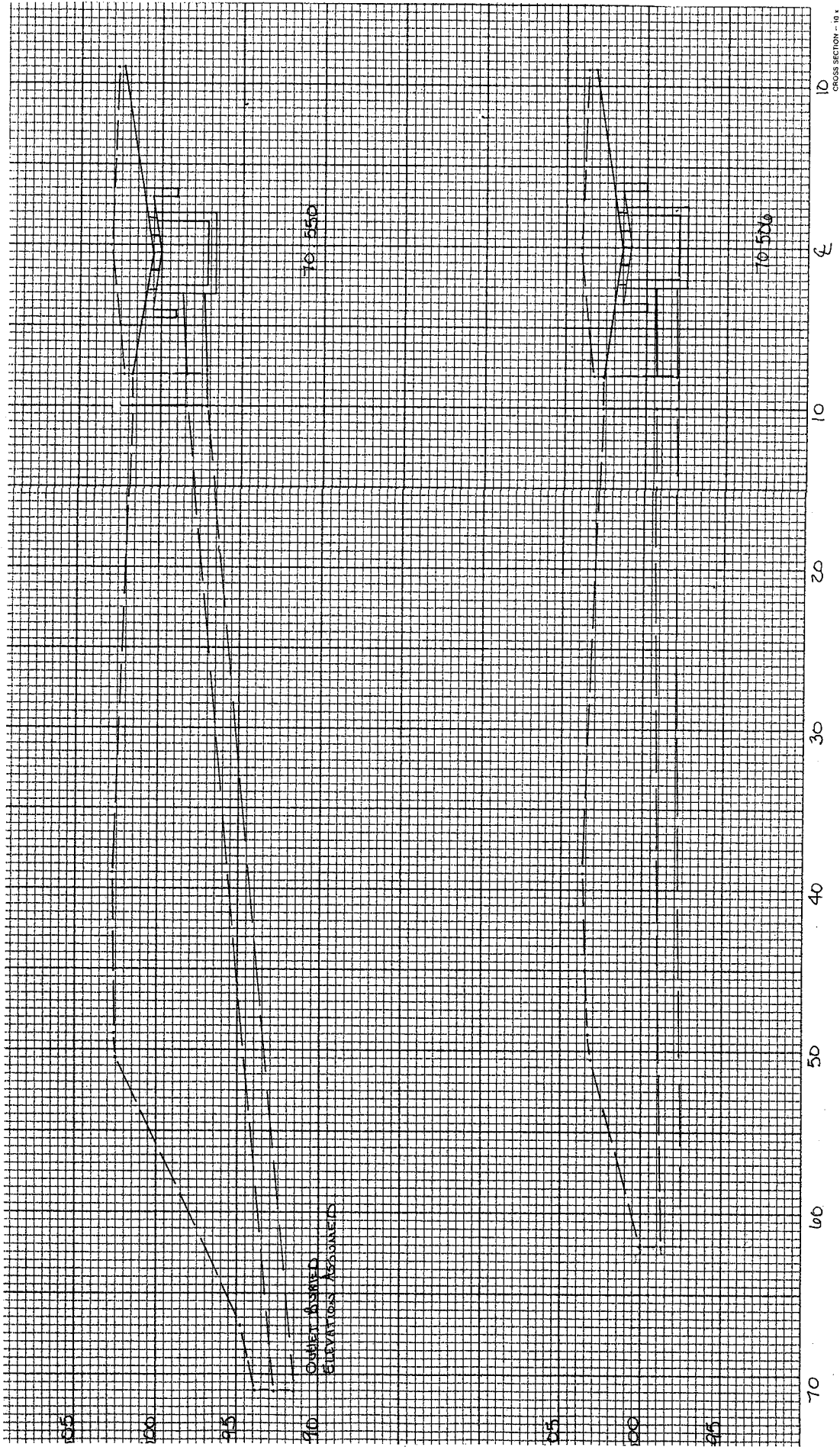




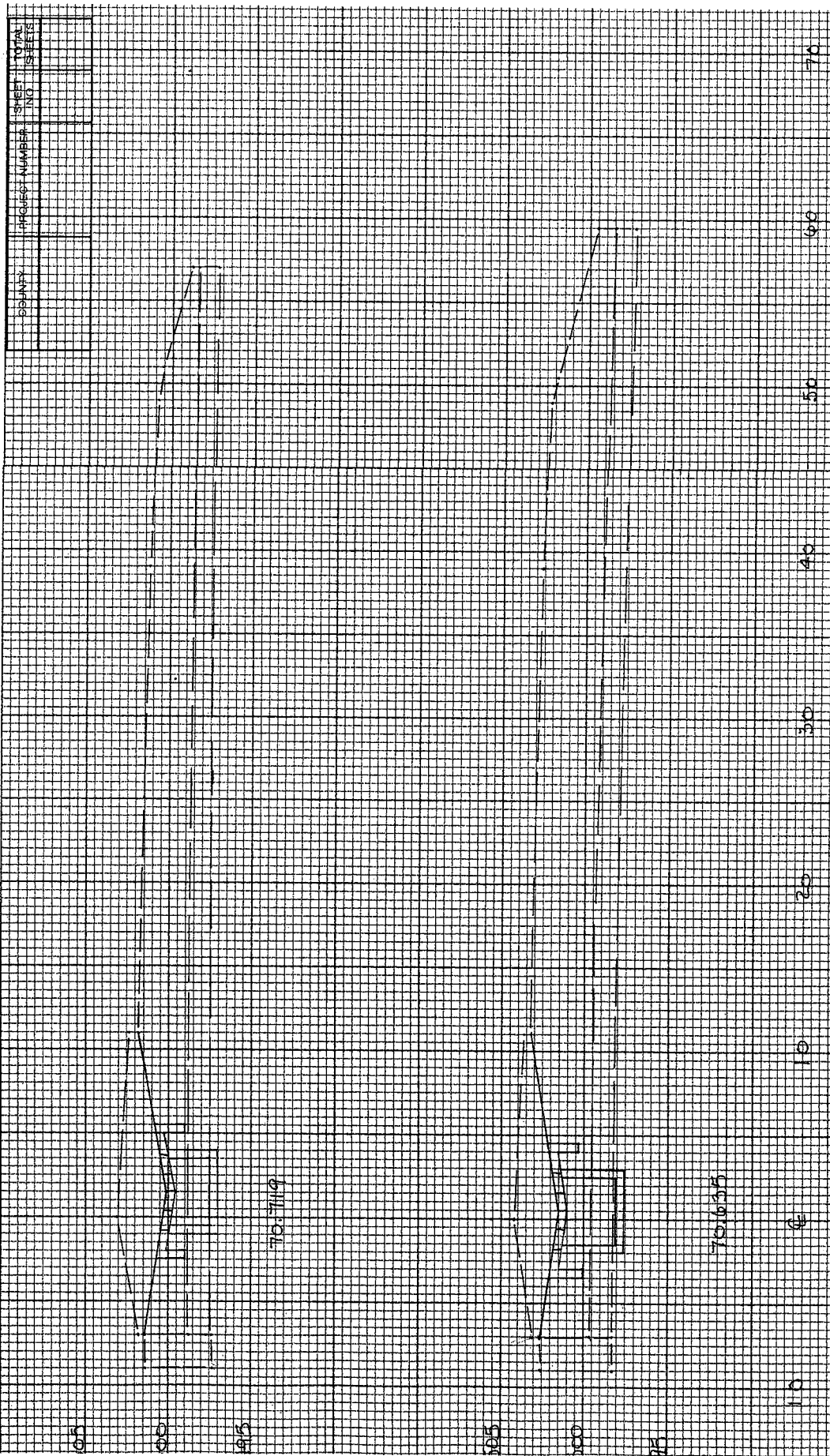


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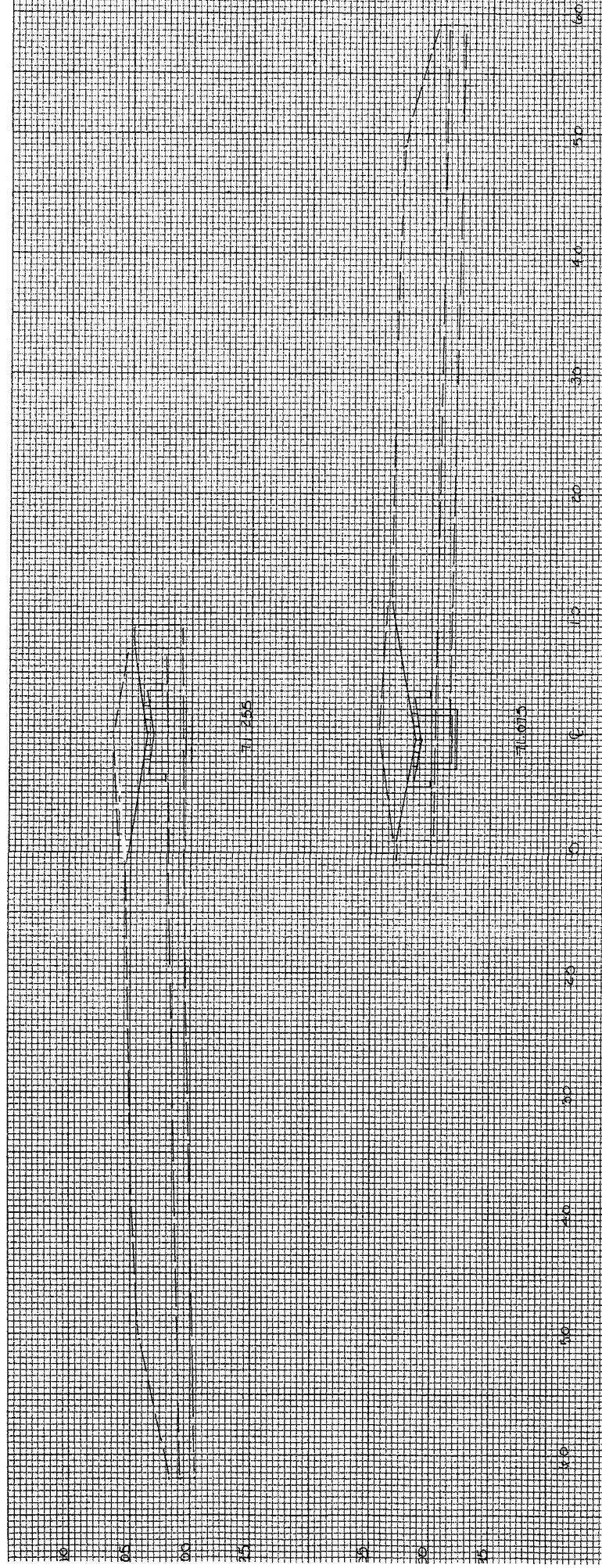


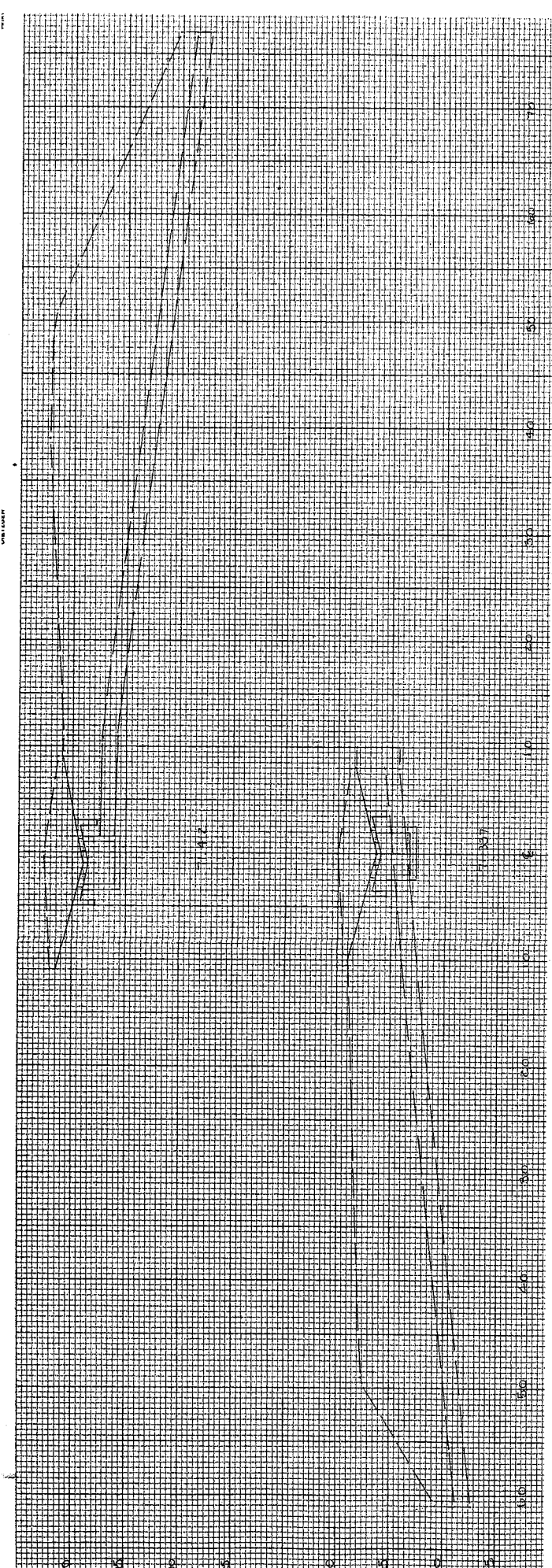








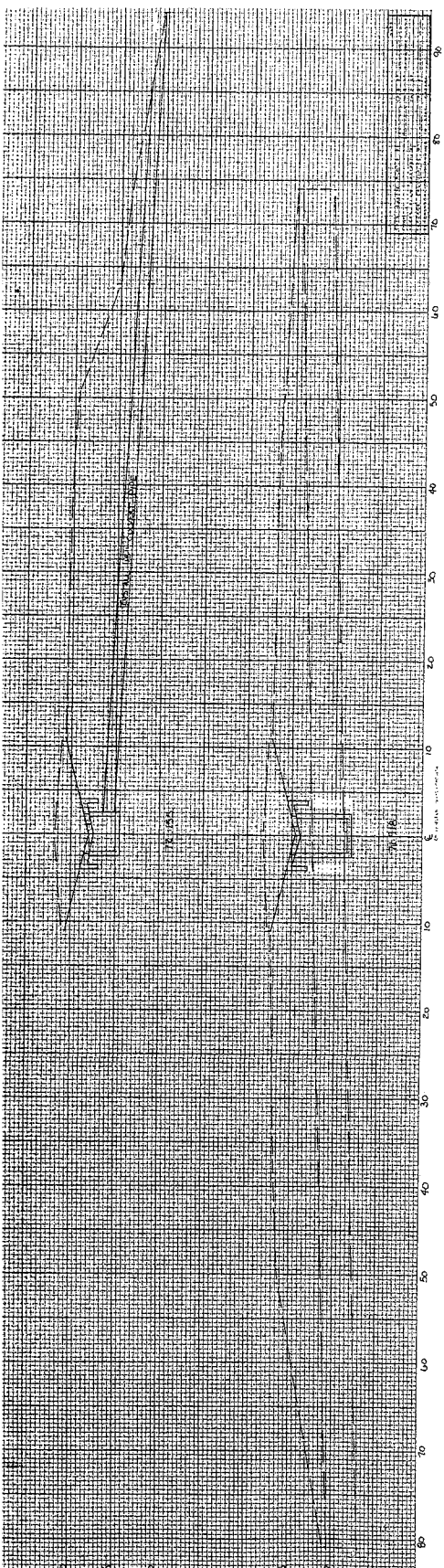




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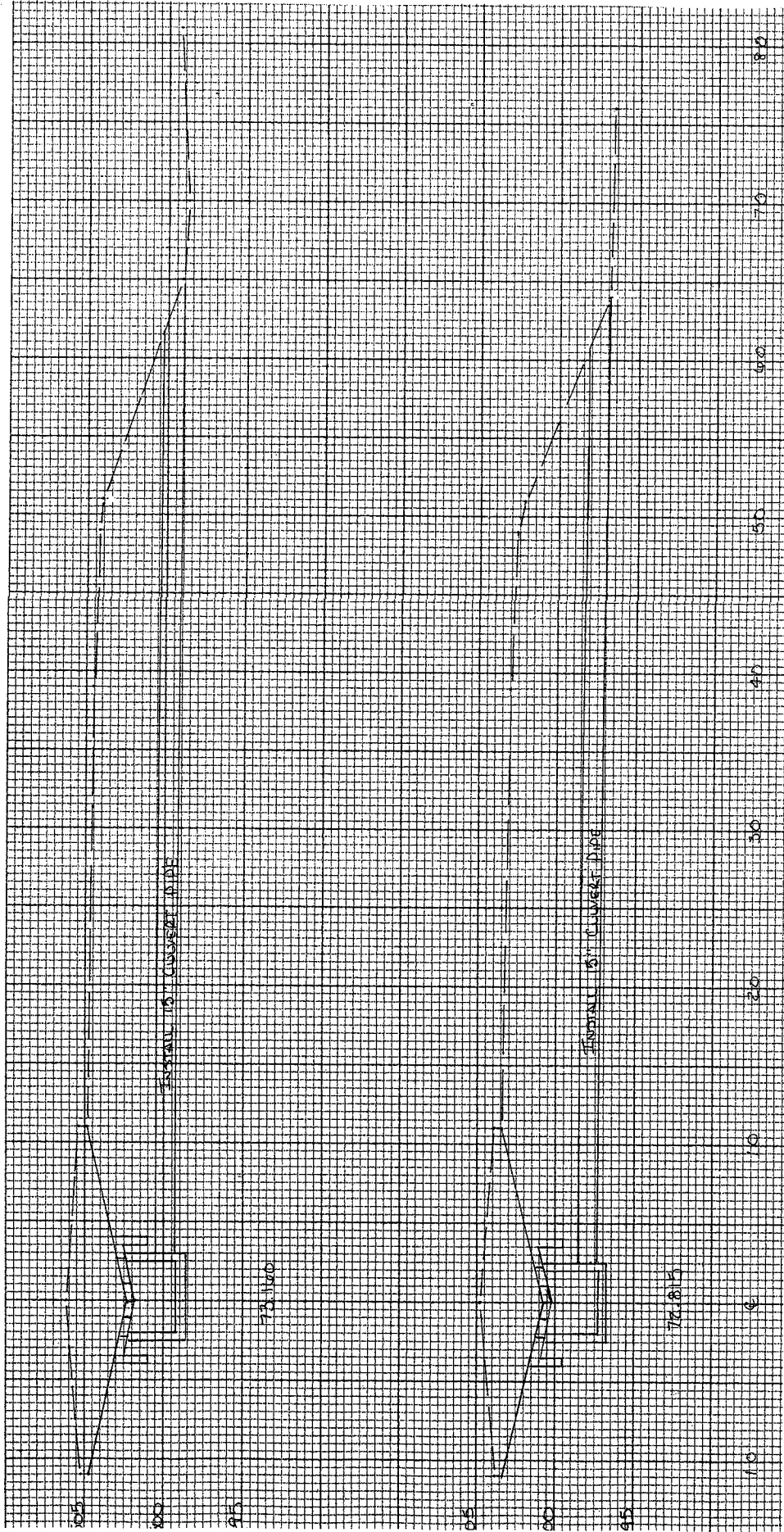




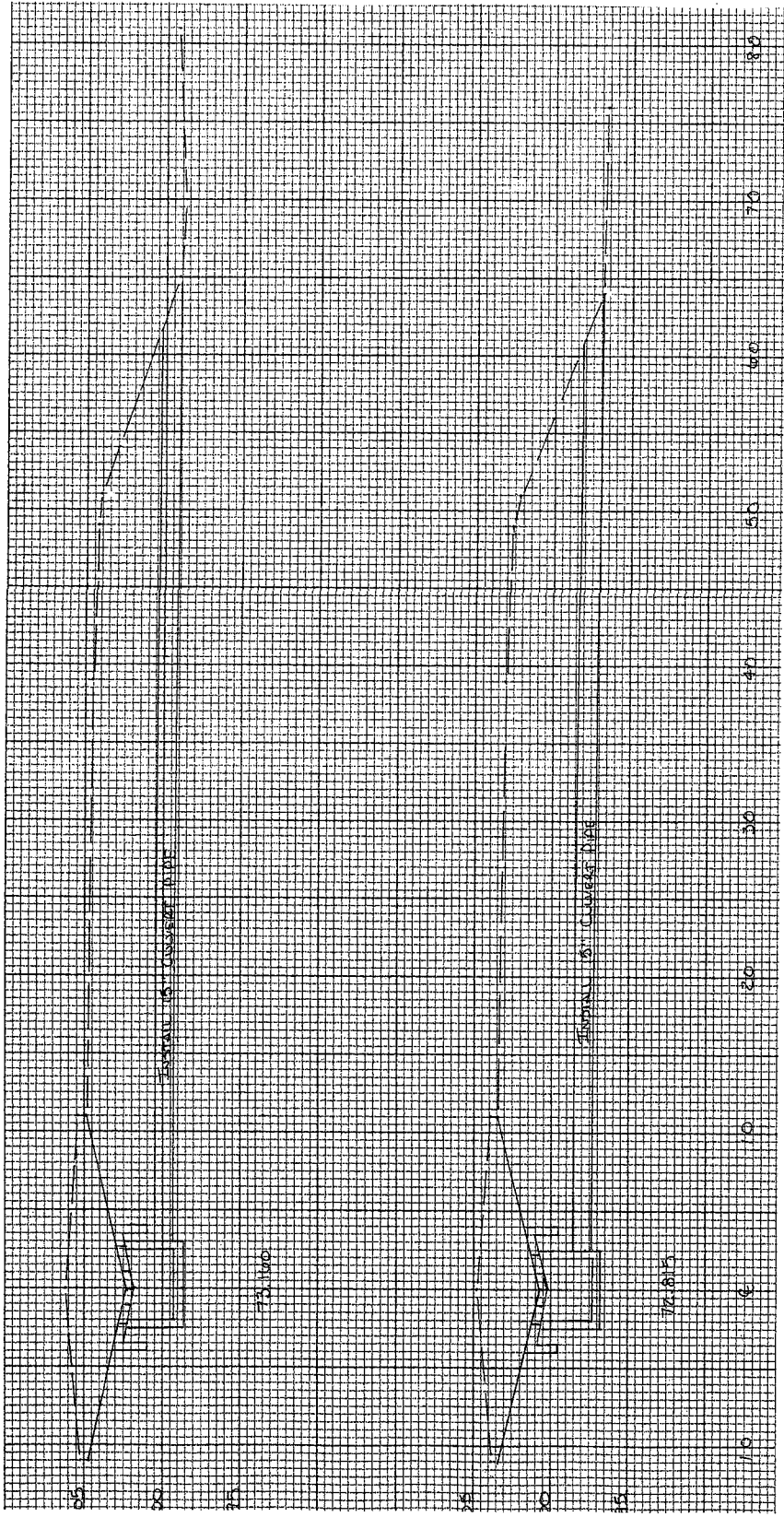
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"PERFECT" CROSS SECTION  
10 TO 1 ONE INCH  
DISTANCE

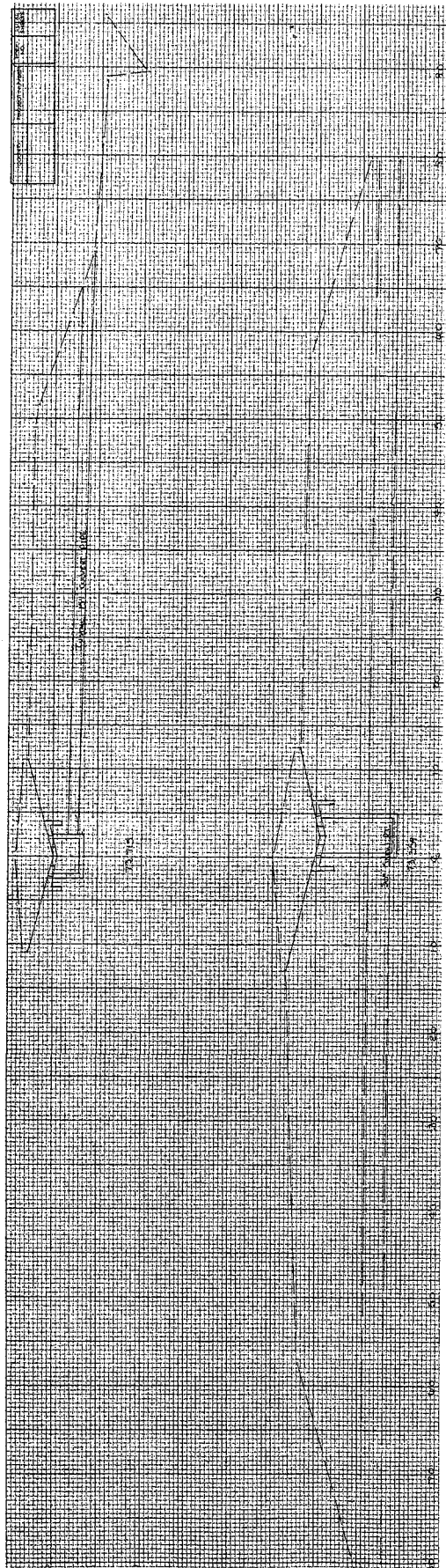
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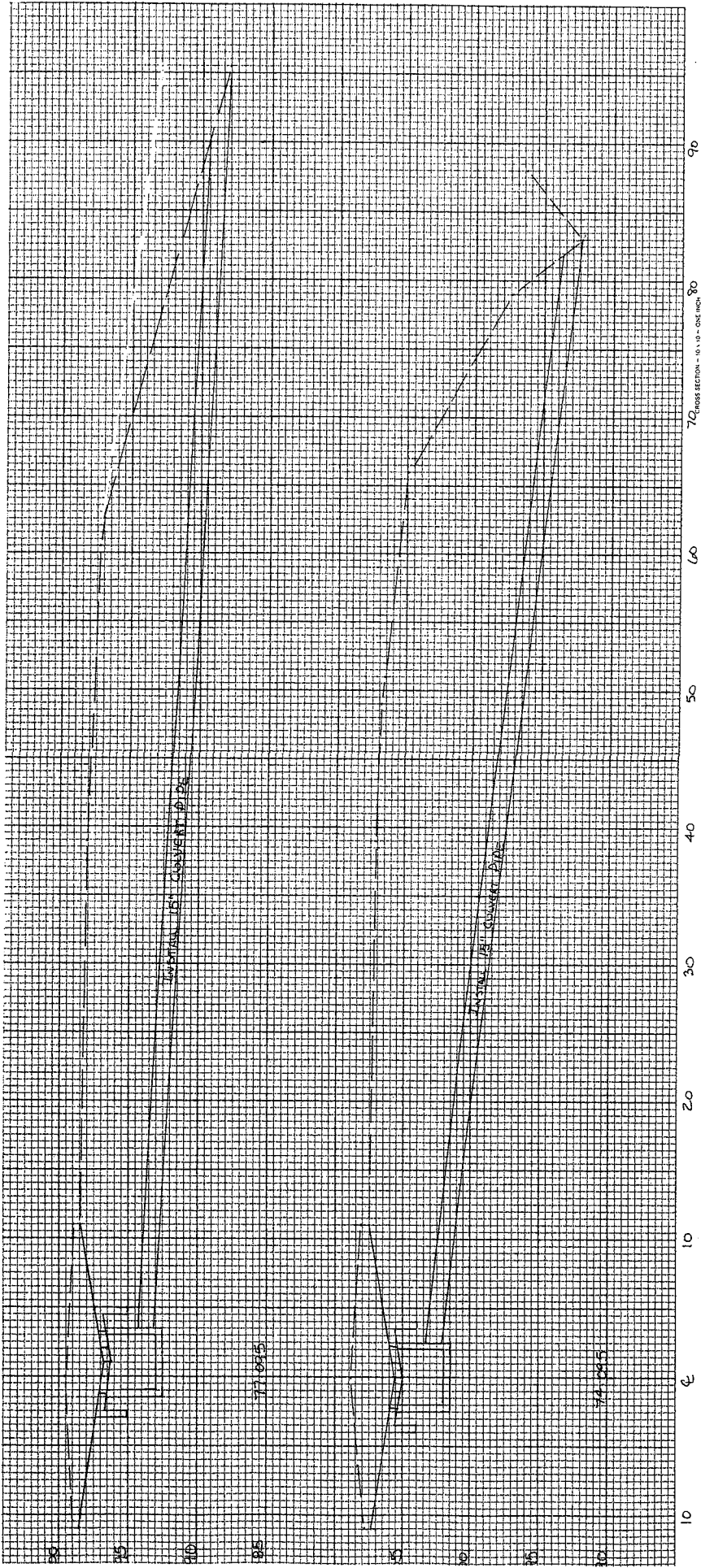


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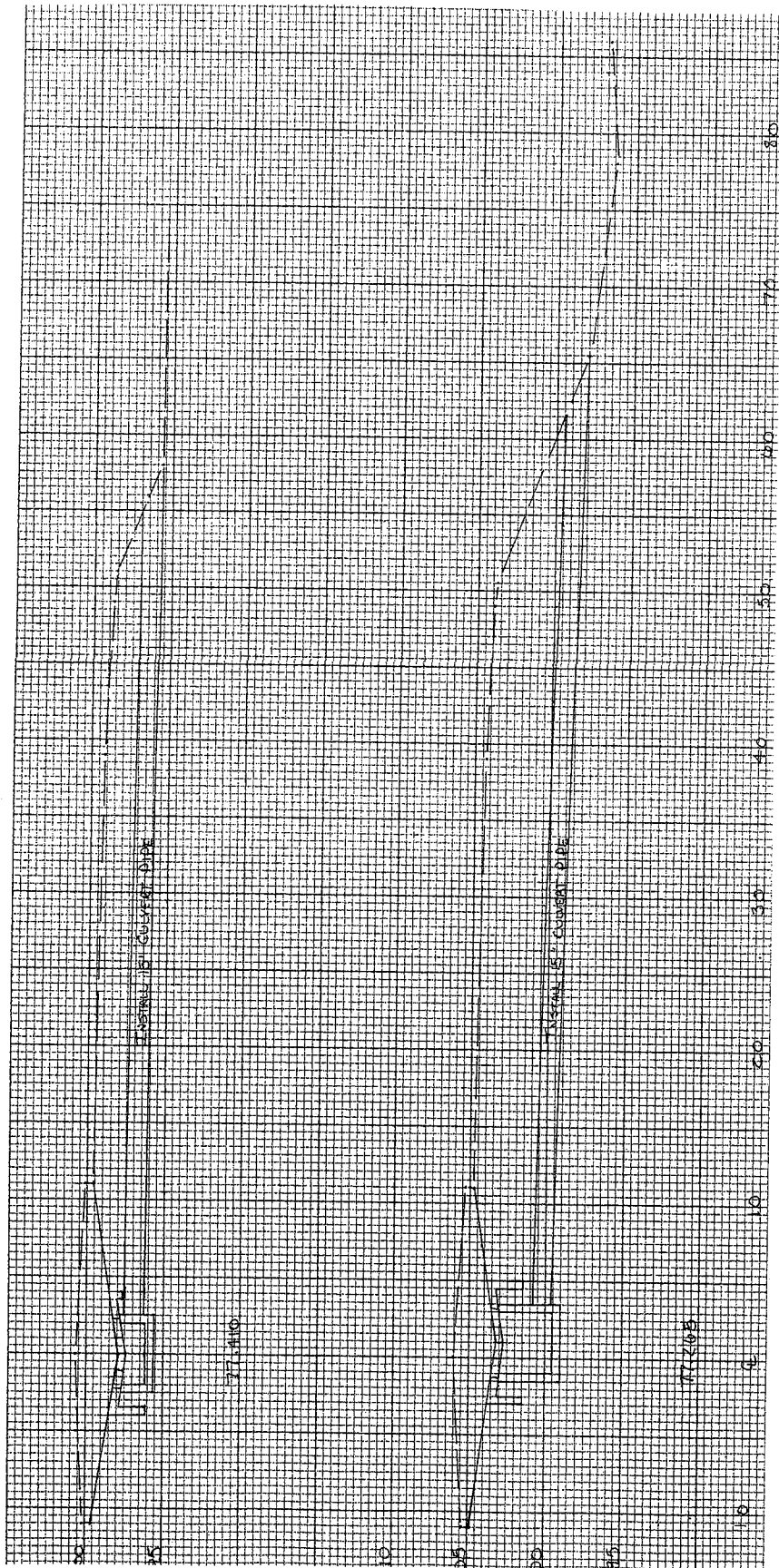


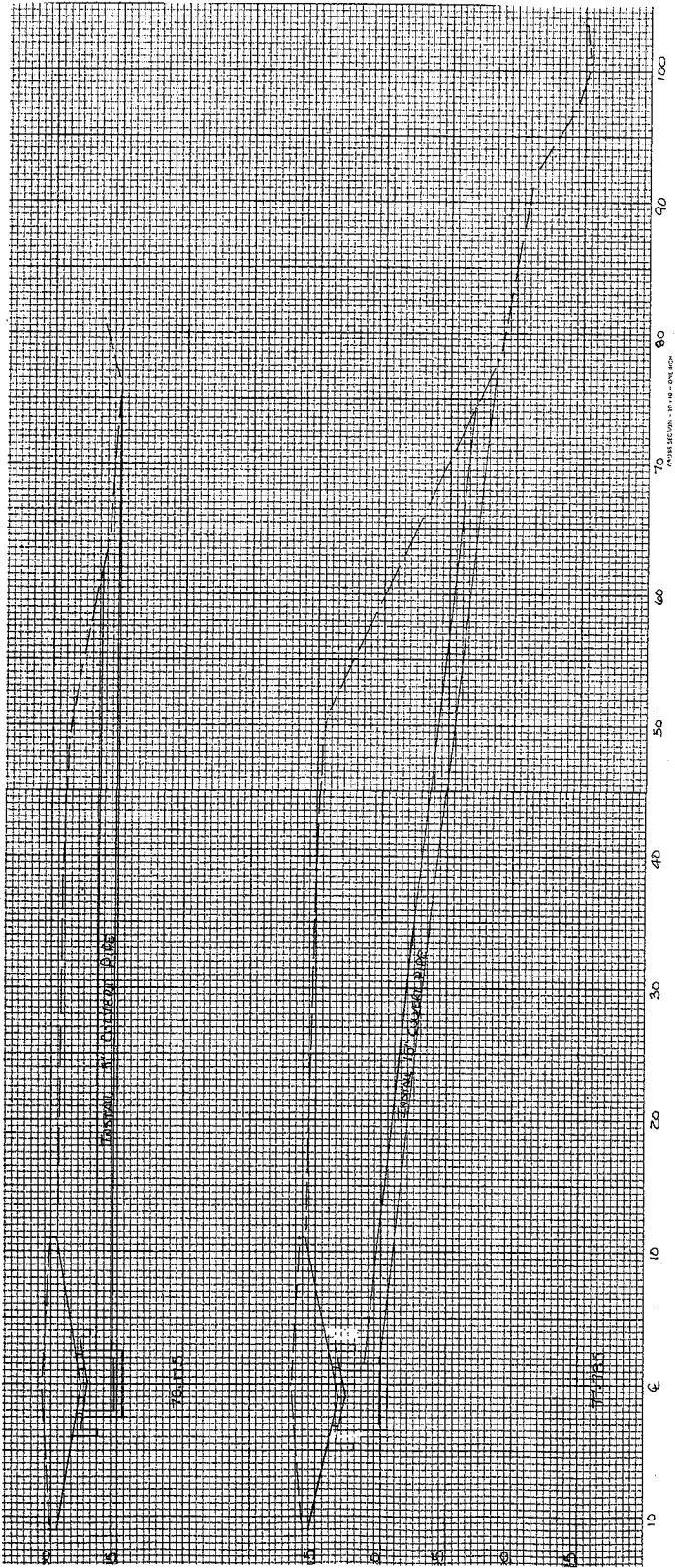


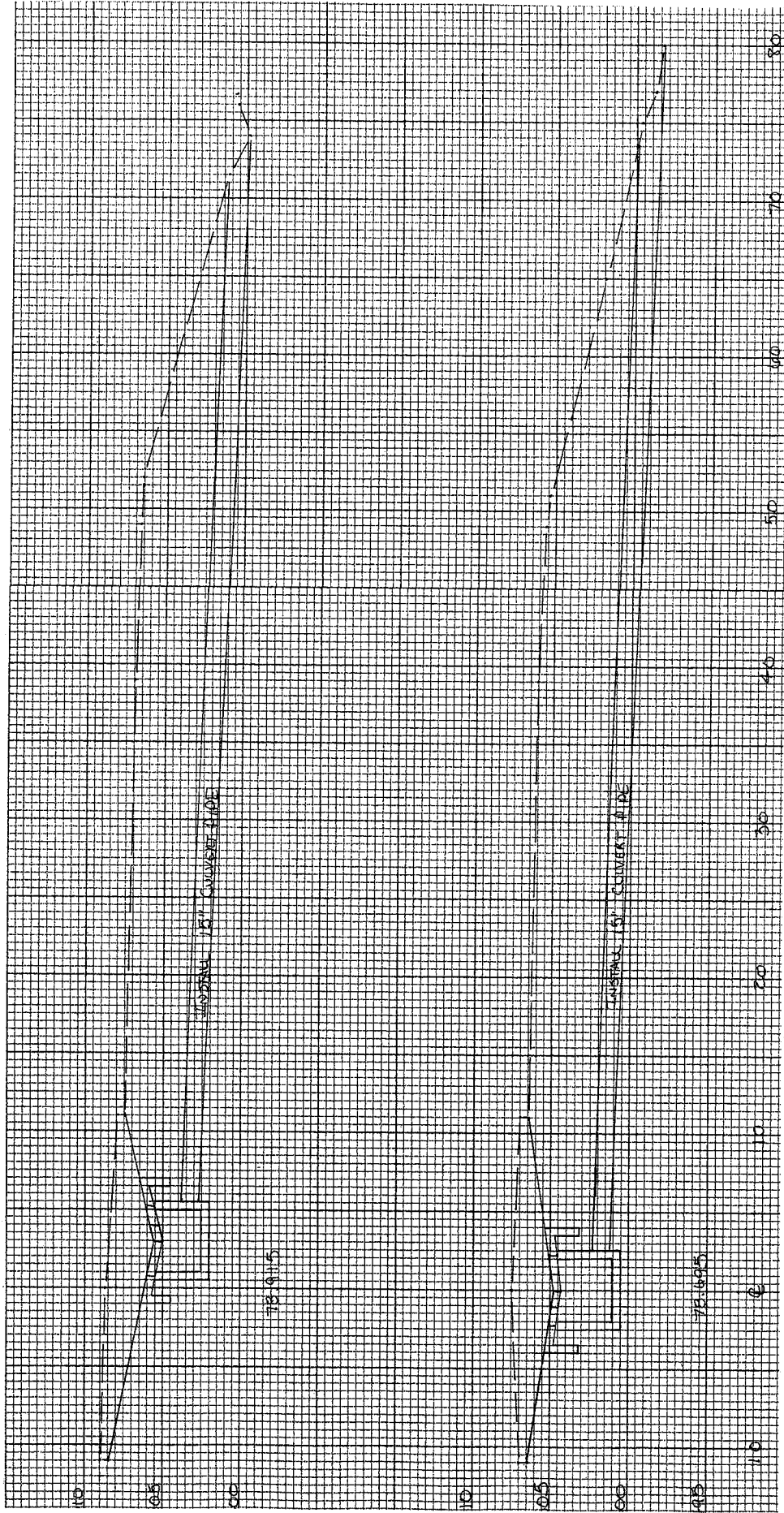




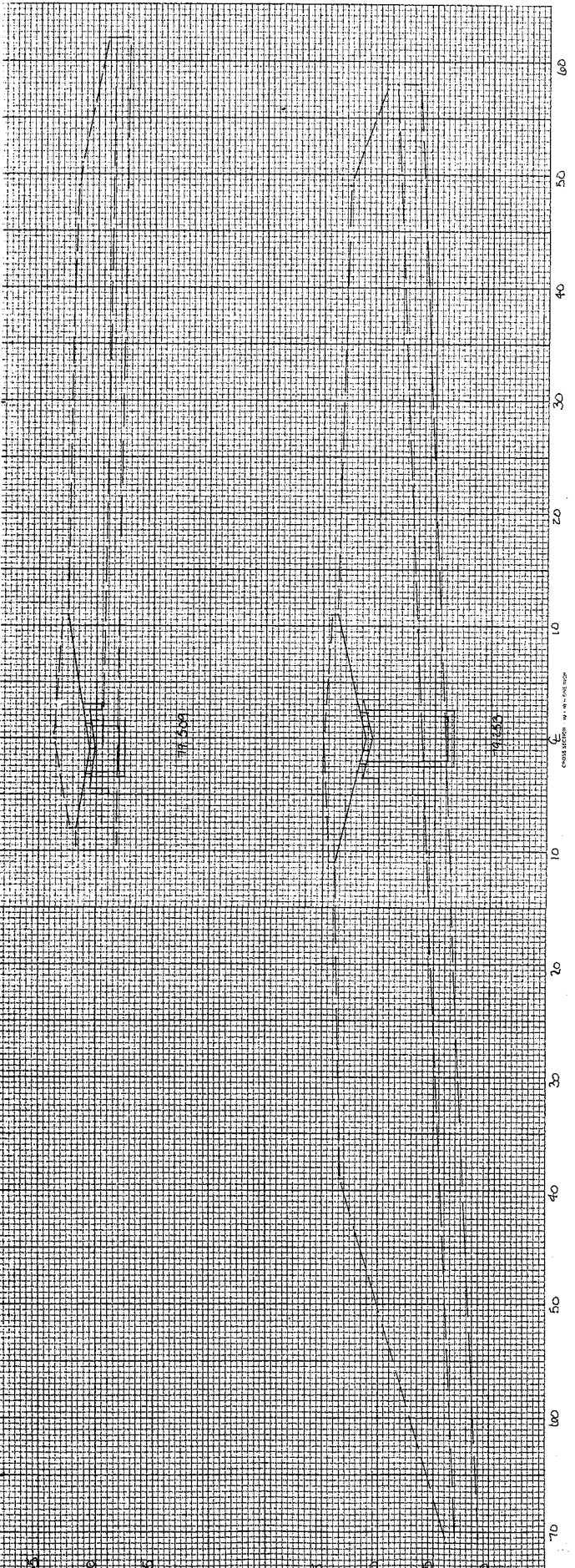
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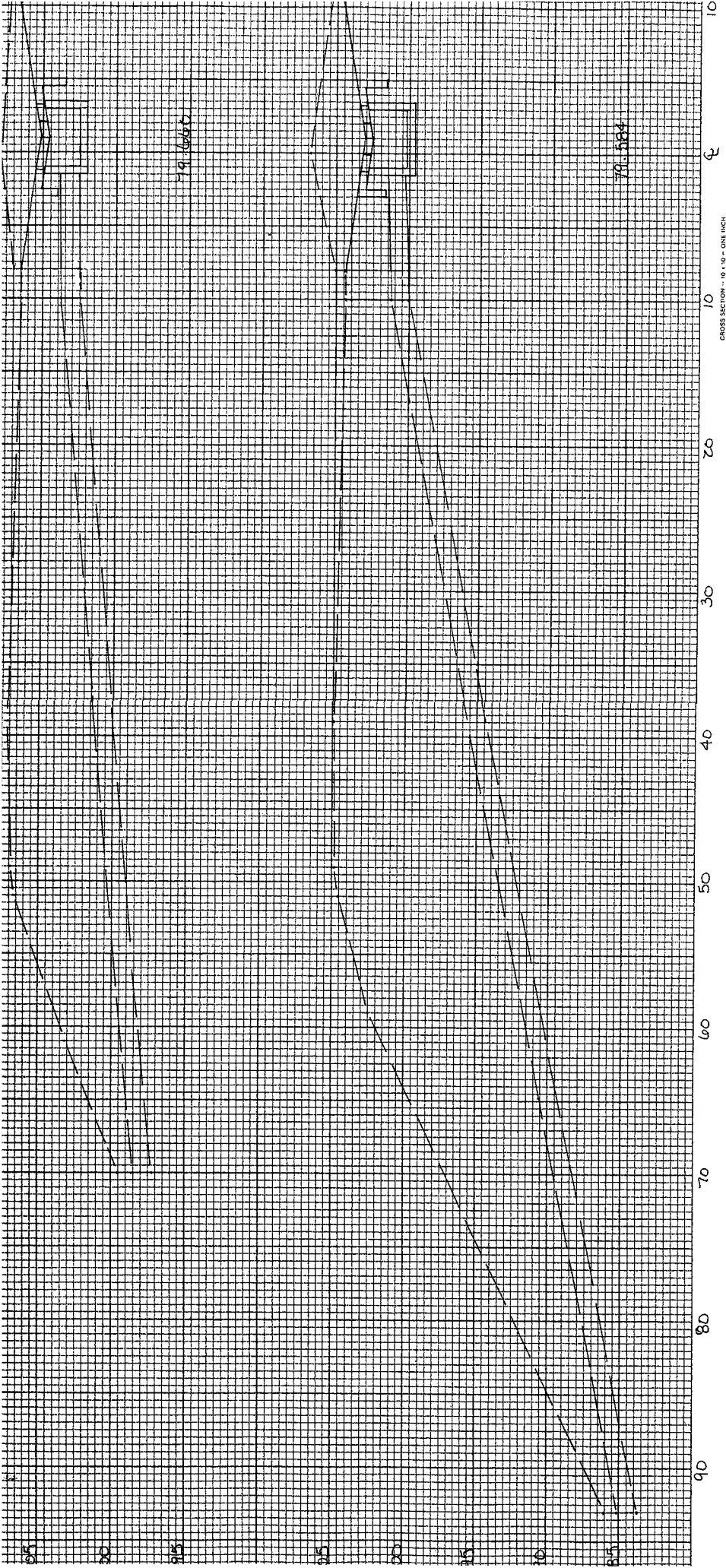










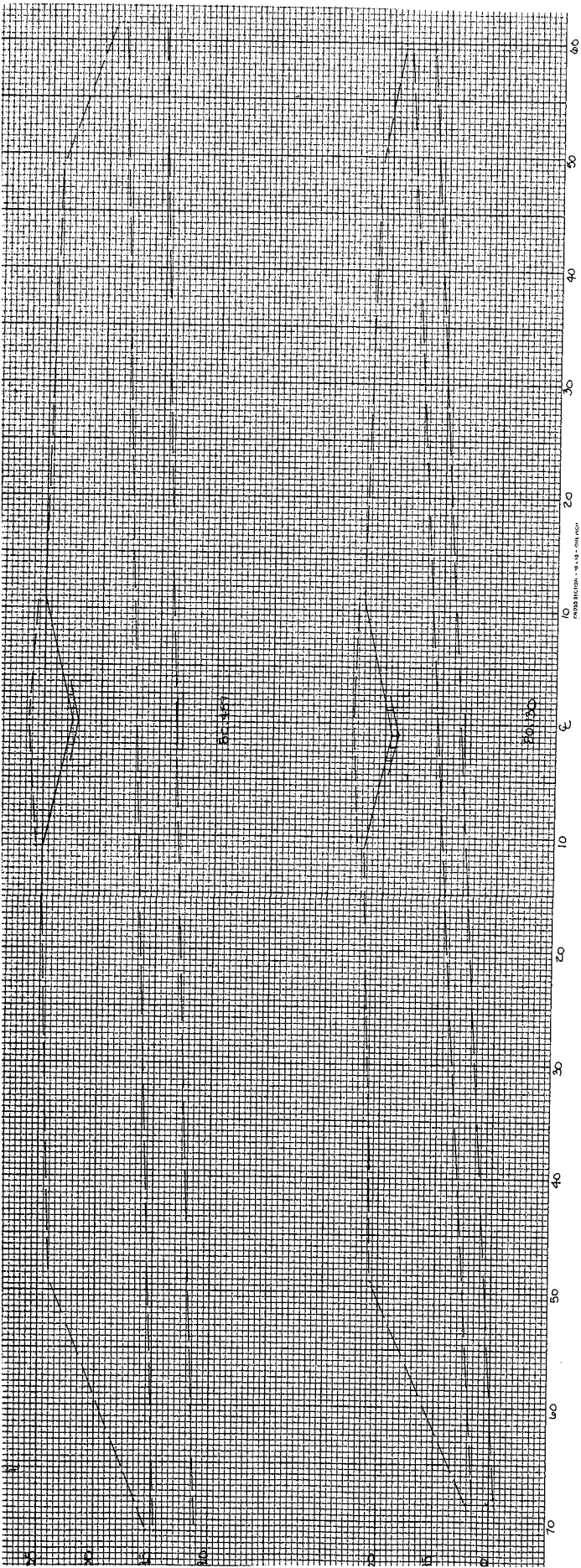


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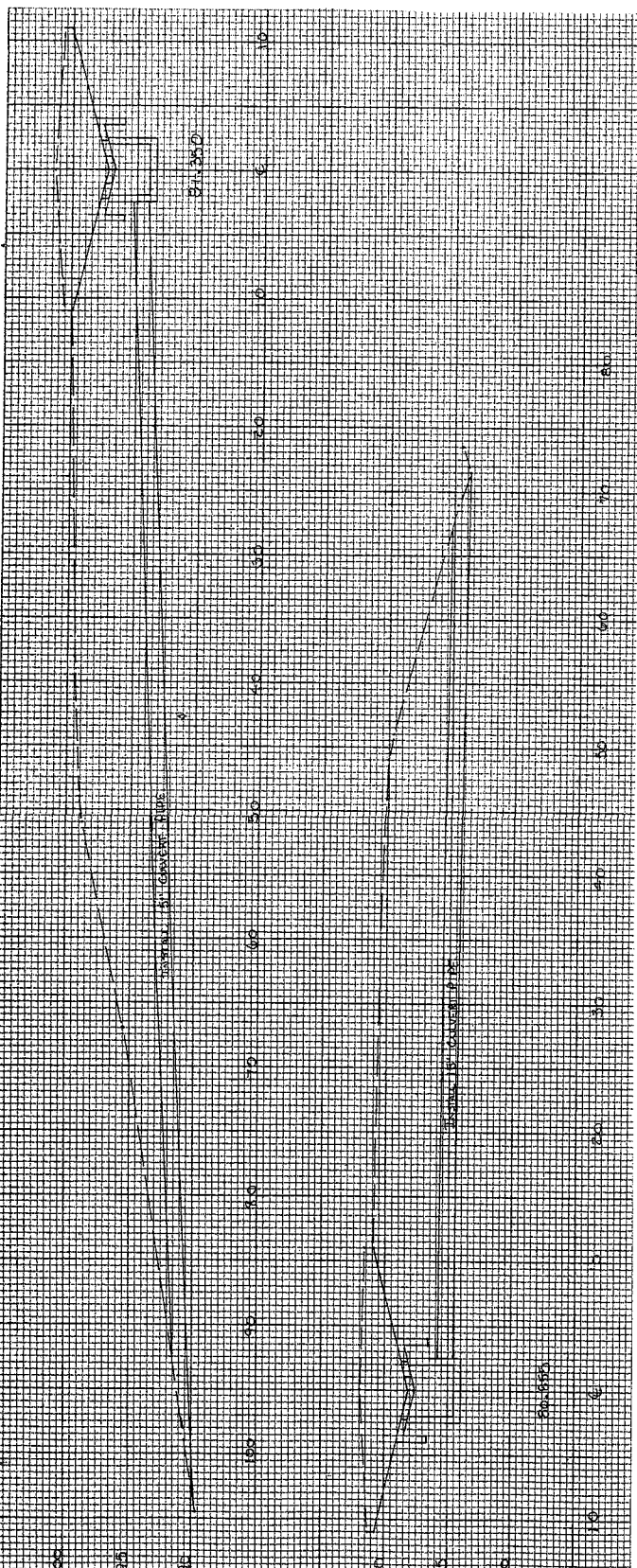








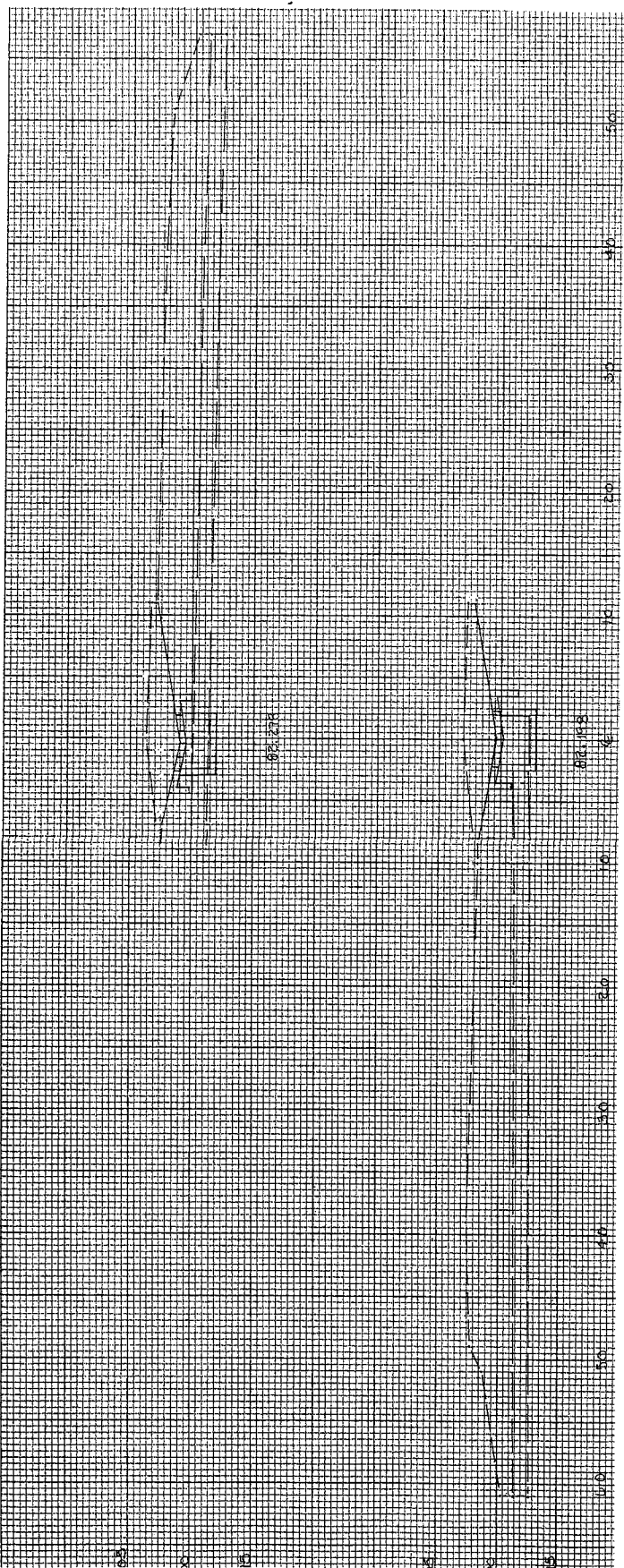
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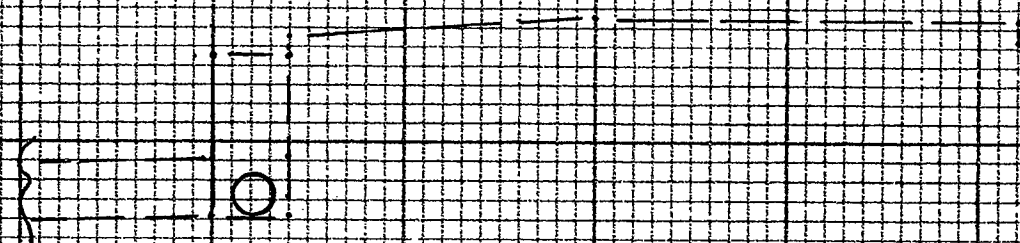






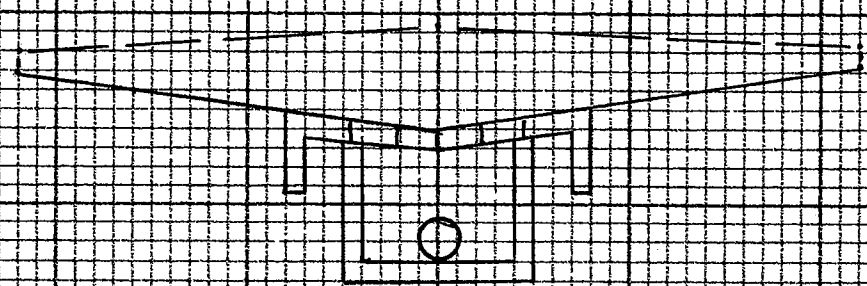
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495



10

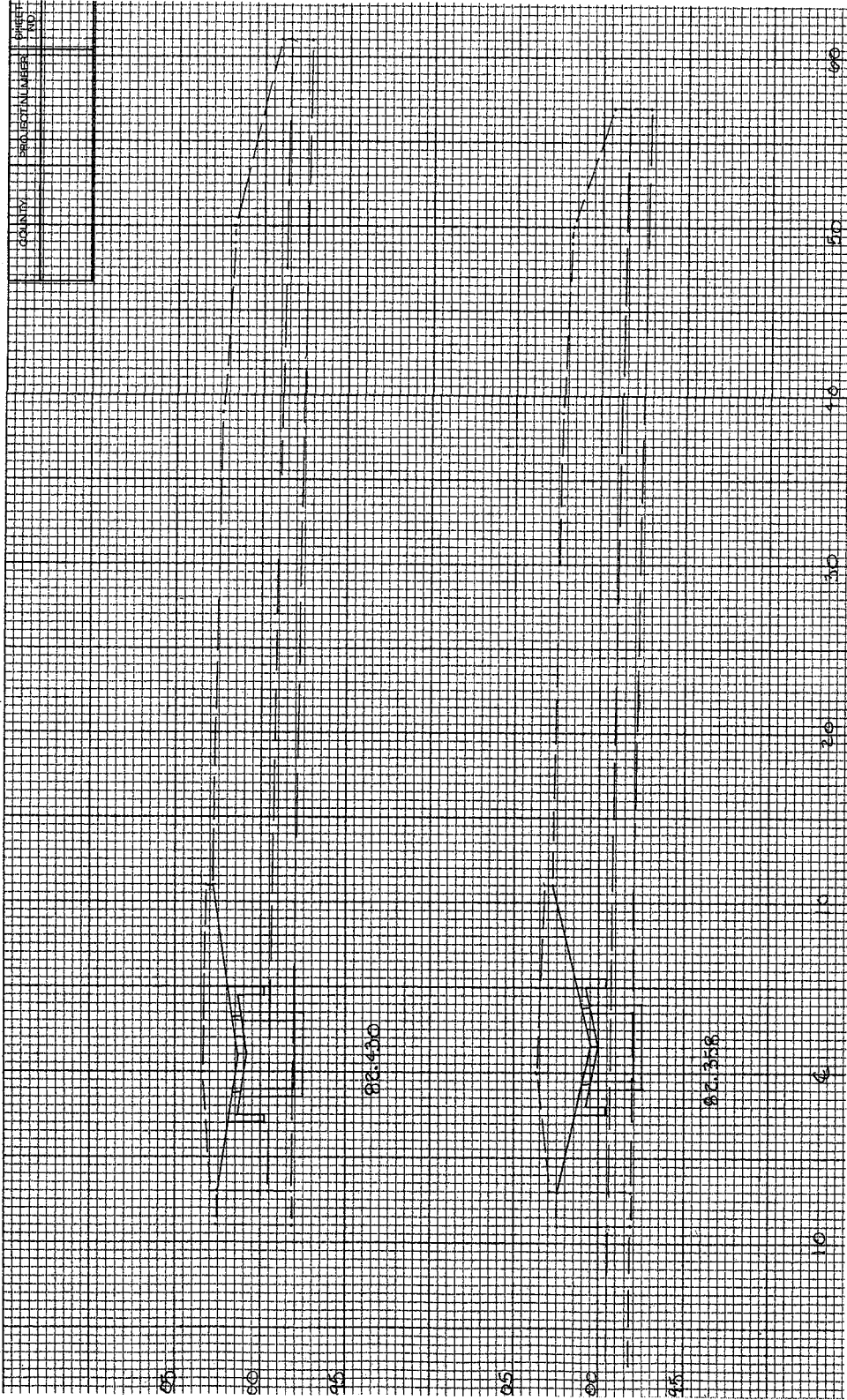
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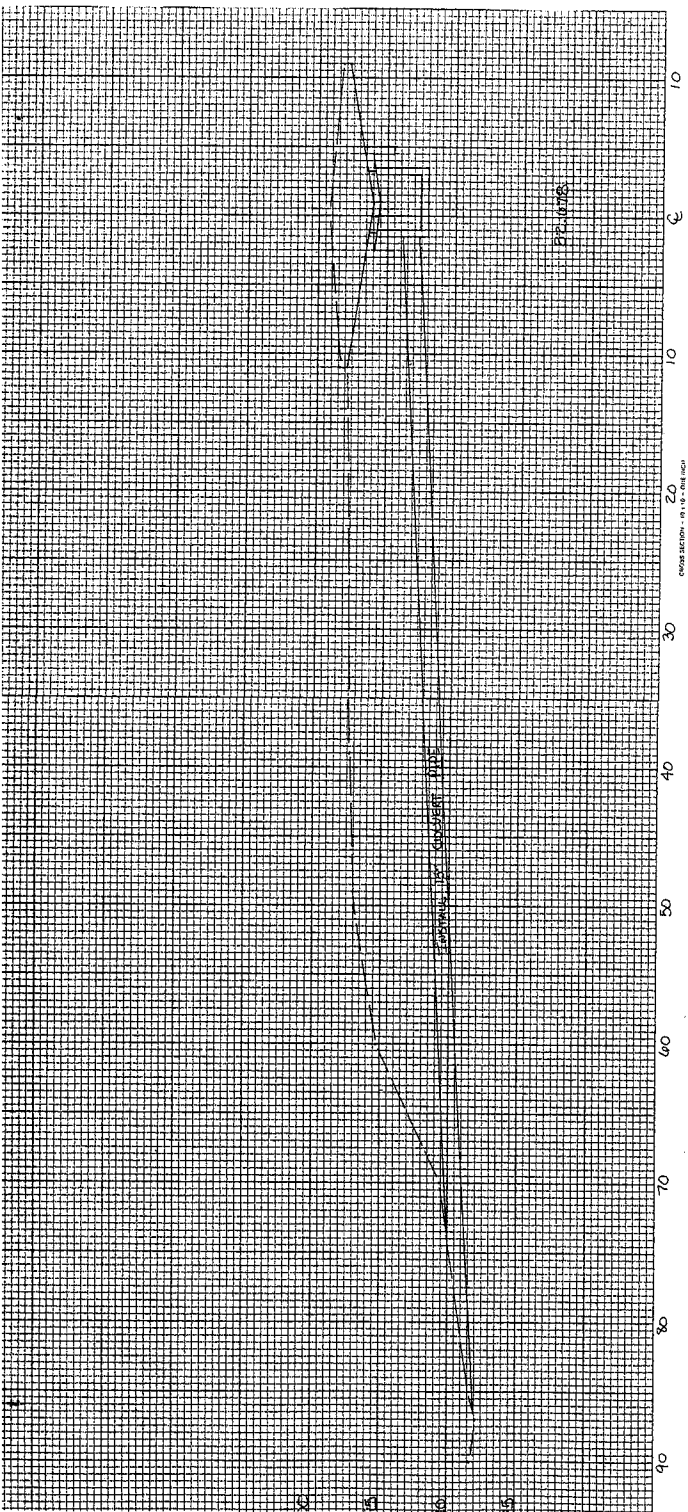
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10 x 10 = ONE INCH  
DIETZEN

PRE

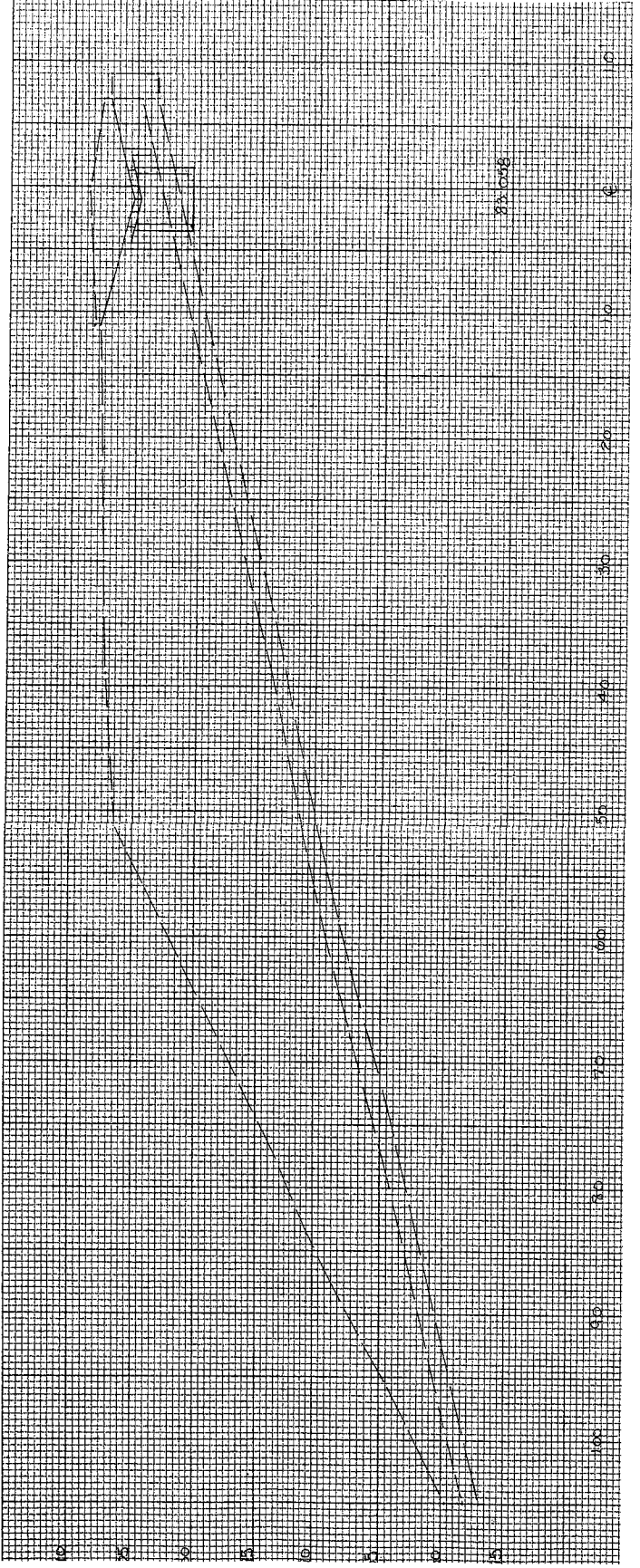


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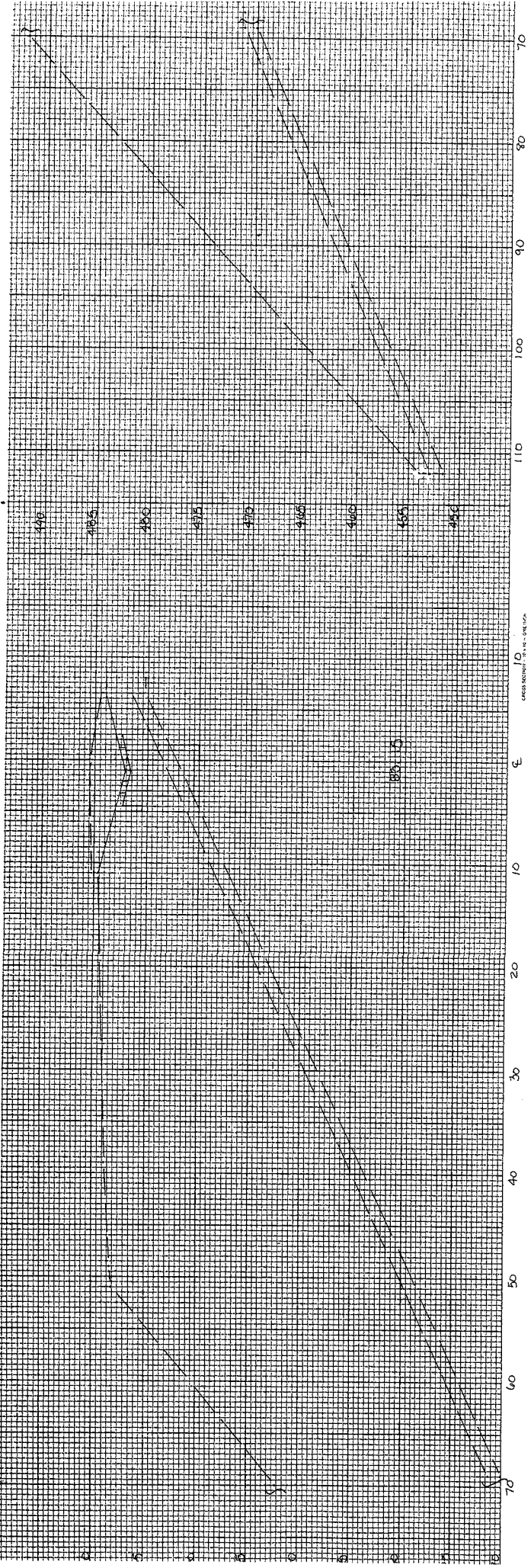


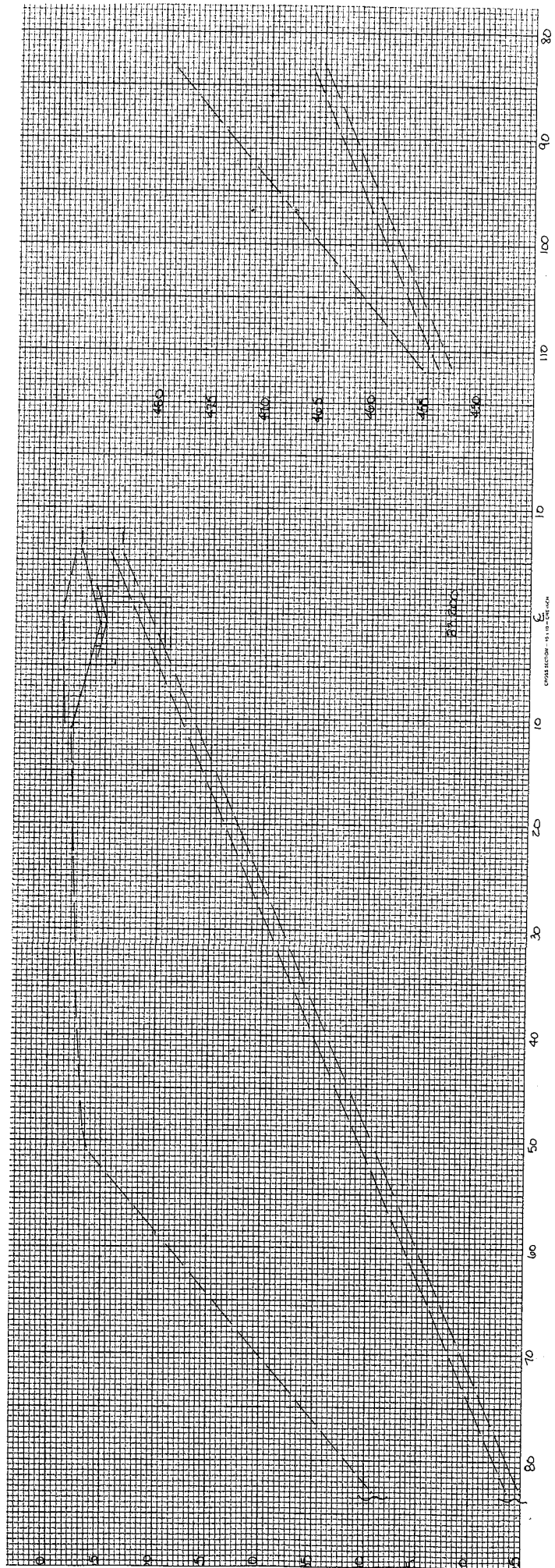


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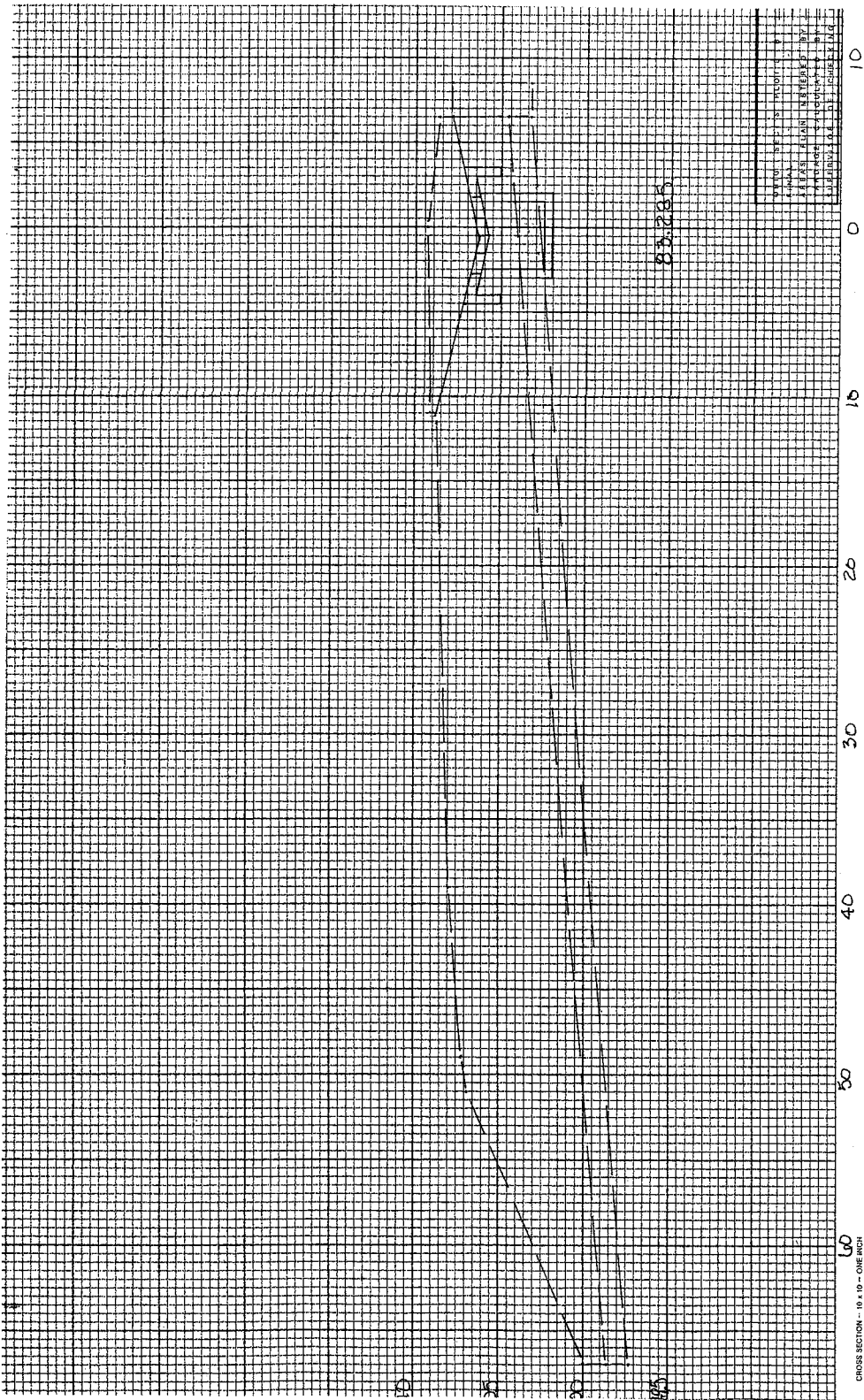


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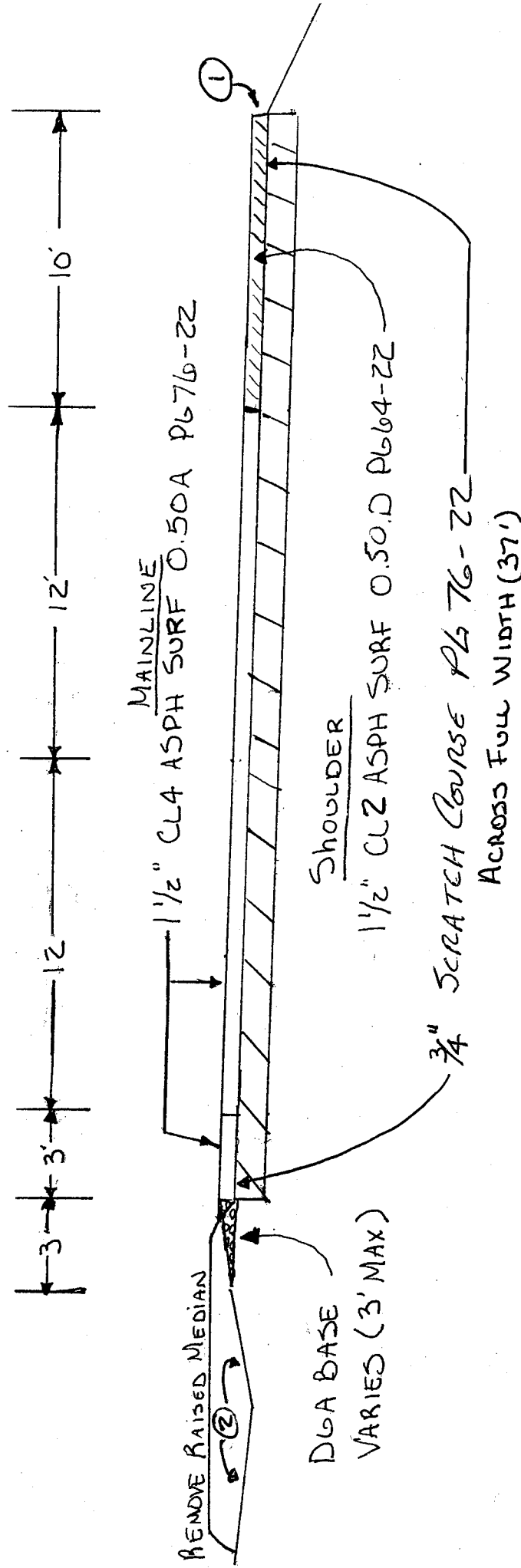
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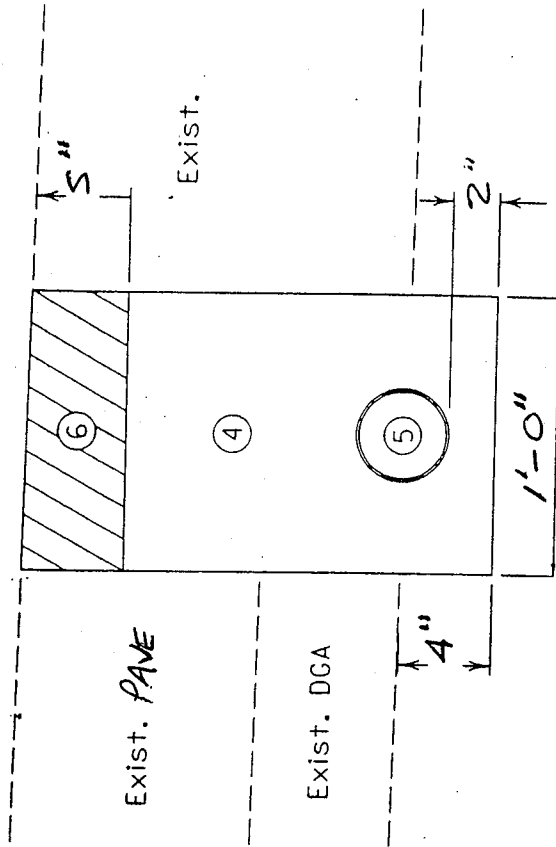
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# TYPICAL SECTION

FD04 092-9001-065-084  
EASTBOUND & WEST BOUND



- ① 1" MAXIMUM DROP-OFF AS SITE CONDITIONS ALL. WEDGE DROP-OFFS > 1" WITH MILLING CUTTINGS.
- ② SLOPE VARIES 4:1 TO 6:1 AS DIRECTED BY ENGINEER



PERFORATED PIPE DRAIN  
(Natural Sand Backfilled Trench)

NOTE: THESE ITEMS (\*) CONSIDERED INCIDENTAL TO  
PERFORATED PIPE -

\* (4) Compacted Natural Sand Backfill

(5) 1000 PERFORATED PIPE - (With Sock) manufacturers spec.

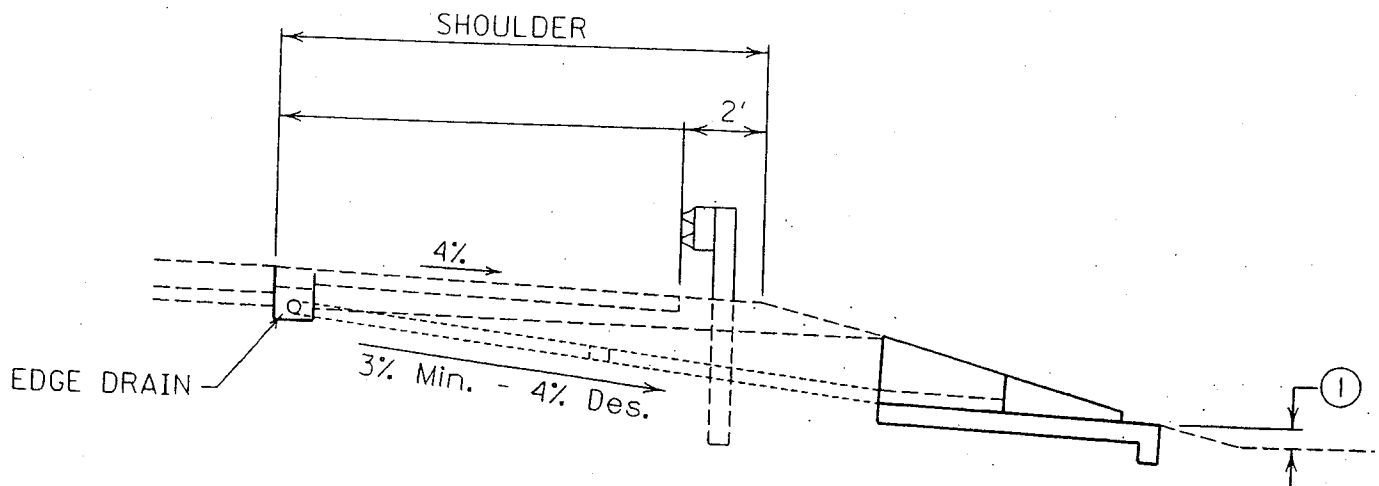
(6) ASPHALT BASE  
CLASS 2 1.00 PL64-22

FD04 092-9001-065-024

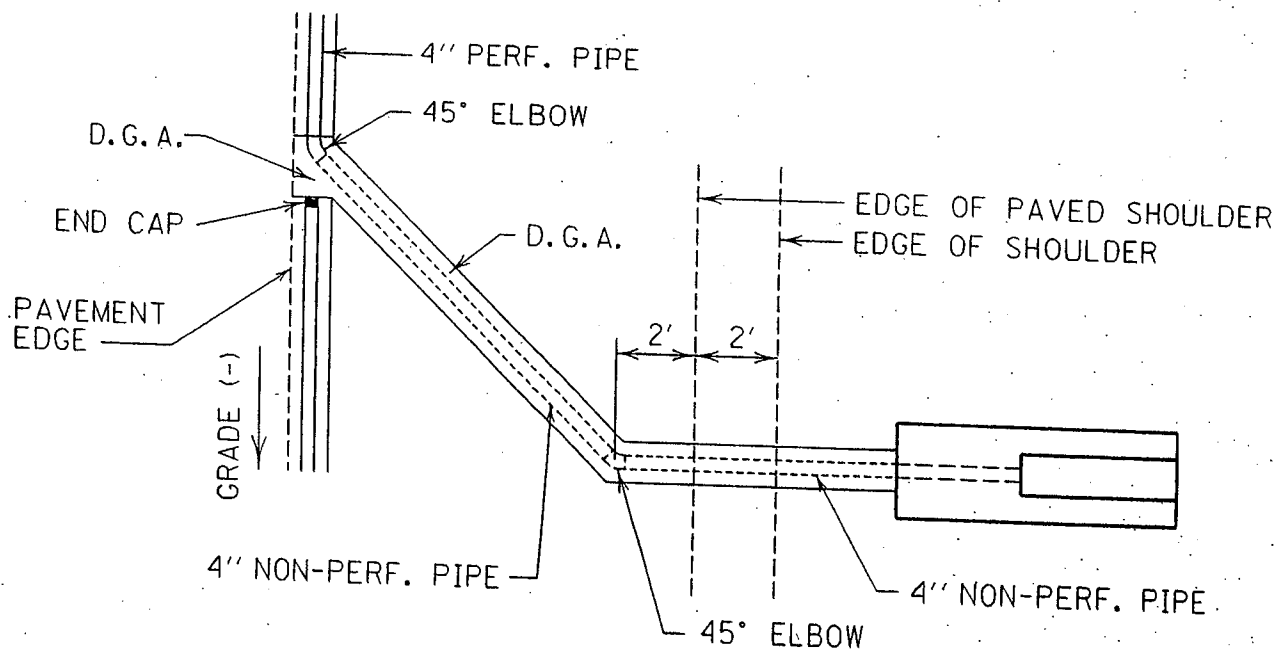
# PAVEMENT EDGE DRAIN

Existing Pavement

F004 092-9001-065-084  
LONGITUDINAL PAVEMENT EDGE DRAIN  
(PERFORATED PIPE)  
(EXISTING PAVEMENT)



① 6" MINIMUM FREEBOARD TO THE BOTTOM OF THE DITCH.



(2)



## SPECIAL NOTES APPLICABLE TO PROJECT

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT AND MAY BE OBTAINED BY CONTACTING THE DEPARTMENT OF HIGHWAYS, DIVISION OF DESIGN, AT A COST OF \$0.50 PER COPY:

Miscellaneous Standards Part 1 (RGX-001-04)  
Approaches, Entrances, and Mail Box Turnout (RPM-110-04)  
Lane Closure Multi-Lane Highway Case I (TTC-115)  
Shoulder Closure (TTC-135)  
Miscellaneous Traffic Control Devices (TTD-100)  
Miscellaneous Traffic Control Devices (TTD-105)  
Post Splicing Detail (TTD-110)  
Arrow Panel (TTD-115)  
Typical Guardrail Installations (RBI-001-09)  
Typical Guardrail Installations (RBI-002-06)  
Typical Installation for Guardrail End Treatment Type 2A (RBI-003-06)  
Installation of Guardrail End Treatment Type I (RBI-004-02)  
Steel Beam Guardrail (W-Beam) (RBR-001-11)  
Guardrail Components (RBR-005-10)  
Guardrail Terminal Sections (RBR-010-05)  
Guardrail Posts (RBR-015-04)  
Guardrail Posts (RBR-016-04)  
Guardrail End Treatment Type I (RBR-020-02)  
Culvert, Entrance & Storm Sewer Pipe Types & Cover Heights (RDI-001-07)  
Pipe Bedding for Culverts, Entrance and Storm Sewer Pipe (RDI-020-08)  
Pipe Bedding, Trench Condition (RDI-025-04)  
Coatings, Linings and Pavings for Non-Structural Plate Pipe (RDI-035-01)  
Silt Check Type I - Straw Bales (RDX-200-02)  
Silt Check Type II & III - Crushed Stone (RDX-205)  
Temporary Silt Fence (RDX-210-02)  
Drop Box Inlet Type 5A-5B-5C-5D-5E and 5F (RDB-005-08)  
Sloped Box Inlet or Outlet Type I (RDB-110-07)  
Perforated Pipe Types and Cover Heights (RDP-001-05)  
Perforated Pipe Headwalls (RDP-010-07)  
Junction Box (RDX-001-05)  
Junction Box (Dimensions and Quantities) (RDX-002-03)  
Superelevation for Multilane Pavements (RGS-002-04)  
Permanent U-Turn Median Opening (RPM-001-03)  
Pavement Marker Arrangements Multi-Lane Roadways (TPM-105)  
Pavement Marker Arrangement Exit Gore and Off-Ramp (TPM-125)  
Pavement Marker Arrangements for On-Ramp with Tapered Acceleration Lane (TPM-130)  
Pavement Marker Arrangement for On-Ramp with Parallel Acceleration Lane (TPM-135)  
Mobile Operation for Paint Striping Case III (TTS-110)  
Mobile Operation for Paint Striping Case IV (TTS-115)  
Sloped & Flared Headwalls for 12" - 27" Pipe (RDH-020-03)

**2000 SPECIFICATIONS**

Any reference in the plans or proposal to the *Standard Specifications for Road and Bridge Construction, Edition of 1998*, and *Standard Drawings, Edition of 2000* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2000* and *Standard Drawings, Edition of 2003*.

**2001 SUPPLEMENTAL SPECIFICATIONS**

The *2001 Supplemental Specifications* to the 2000 Standard Specifications for Road and Bridge Construction shall apply to this project.

**PROPOSAL ADDENDA**

All Addenda to this proposal must be incorporated into the proposal when the bid is submitted to the Kentucky Department of Highways. Failure to use the correct and most recent bid sheet(s) may result in the bid being rejected.

## SPECIAL NOTES APPLICABLE TO PROJECT (Continued)

**BID SUBMITTAL**

Bidder must use the Department's Highway Bid Program available on the internet web site of the Department of Highways, Division of Contract Procurement. ([www.kytc.state.ky.us/contract](http://www.kytc.state.ky.us/contract))

The Bidder must download the bid items created from the web site to prepare a bid proposal for submission to the Department. The bidder must insert the completed bid item sheets printed from the Program into the bidder's proposal and submit with the disk created by said program.

**JOINT VENTURE BIDDING**

Joint Venture bidding is permissible. However, both companies MUST purchase a bidding proposal. Either proposal may be submitted but must contain the company names and signatures of both parties where required. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

**UNDERGROUND FACILITY DAMAGE PROTECTION**

The contractor is advised that the Underground Facility Damage Protection Act of 1994, became law January 1, 1995. It is the contractor's responsibility to determine the impact of the act regarding this project, and take all steps necessary to be in compliance with the provisions of the act.

**ASPHALT BASE PRICE**

The Asphalt Base Price shall be \$185.00 (english) as applicable in Section 109.07 of the 2000 Standard Specifications.

**INCIDENTAL SURFACING**

The quantities established in the proposal include estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, and road and street approaches. These items are to be paved to the limits as shown on Standard Drawing RPM 110 or to the limits as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, the paving of the crossroads shall be to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. These areas are to be surfaced or resurfaced as directed by the Engineer and no direct payment will be allowed for placing and compacting.

**NHS PROJECTS**

This project is on the NATIONAL HIGHWAY SYSTEM.

**WORK ZONE CATEGORY I AND II DEVICES**

The Contractor is required to provide certification that all Work Zone Category I and II Devices are compliant with NCHRP 350 before these devices are used on the project. Category II Devices include, but are not limited to: portable sign stands (with signs), type I, II & III barricades, vertical panels, intrusion alarms, cones with lights, and other work zone devices under 45kg (100 lb).

**OPTION A**

The Contractor is advised that the compaction of asphalt mixtures furnished for driving lanes and ramps, at 25mm (1 inch) or greater, on this project will be accepted according to OPTION A in accordance with Section 402 and Section 403 of the 2000 Standard Specification. The compaction of all other asphalt mixtures will be accepted by OPTION B.

**ASPHALT PAVEMENT RIDE QUALITY**

Pavement Rideability Requirements shall apply on this project in accordance with Section 410 of the 2000 Standard Specifications.

## SPECIAL NOTES APPLICABLE TO PROJECT (Continued)

Mainline Surfacing Width 48 Feet.

Total area to be Surfaced 544589 Square Yards.

**DGA Base** quantities based on 115 pounds per square yard per inch of depth.  
Base shall be 2 inches of compacted aggregate.

Class 2 Asphalt Base 1.0D PG 64-22 estimate based on 110 lbs/s.y. per inch of depth.

Class 2 Asphalt Surface 0.5D PG 64-22 For Shoulder estimate based on depth of 1 ½" - 165 lbs/s.y.

Class 3 Asphalt Surface 0.5A PG 76-22 estimate based on depth of 1 ½" - 165 lbs/s.y.

Asphalt Scratch Course PG 76-22 estimate based on depth of ¾" - 83 lbs/s.y.

The ADT for this project is estimated at 8500.

**SHOULDERS** (268170 Sq. Yds.) 10' wide on each side.

## SPECIAL NOTES APPLICABLE TO PROJECT (Continued)

In order for the Cabinet to the use of its resources more efficiently, the contractor shall, prior to issuance of notice to begin work, submit an anticipated earnings schedule broken down by month for the expected life of the contract for any project with a bid over \$5,000,000. The contractor will be provided a spreadsheet to expedite the preparation of this schedule upon award of the contract. No direct payment will be allowed for the preparation and submittal of this schedule.

In the event the Engineer determines that there are inadequate or insufficient road funds available under the contract for the payment of Engineer's estimates for work on the project as they come due, the Engineer may suspend payment for all or a part of the contract. If payment is suspended, the contractor may have the option, with the written agreement of the Engineer, of continuing performance under the contract. If the contractor suspends performance, he shall not resume performance until he receives a back to work notice from the Engineer. In the event that the Engineer suspends payment for all or part of the project as provided herein, the contractor waives any and all right to bring any claim for damages as a result of the suspension or delayed payment.

In the event the Engineer determines that there are inadequate or insufficient road funds available for the payment of Engineer's estimates for work on the project as they come due, the Engineer may at his discretion, by written notice 10 days in advance, terminate all or part of the contract. The Cabinet will remain obligated to pay, as soon as funds are available, all actual items of work performed prior to the contractor's receipt of the notice termination. The contractor shall be entitled to reasonable close out costs attendant to termination of the contract under this provision, but in no event shall the contractor be entitled to more than 10% of the total contract price.

The contractor agrees to all terms and conditions stated above in the event there are inadequate or insufficient funds available under the contract for payment, and contractor further expressly waives any right to assert a claim or bring any form of action against the Cabinet under the contract or pursuant to Kentucky law or regulation, including but not limited to KRS Chapter 45A or KRS Chapter 13B.

To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Transportation Cabinet from and against claims, damages, losses, and expenses, including but not limited to attorney's fees, arising out of or resulting from suspension or termination under this section. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person under the contract.

In the event of any inconsistent provisions within this contract with respect to this section and any other section, the provisions of this section shall govern and control.

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<b>SUBSECTION:</b>	102.07.01 General.
<b>REVISION:</b>	Replace the first sentence with the following:  Submit the Bid Proposal on the forms furnished by the Department including the Highway Bid Program bid item sheets and disk created from the Department's internet web site.
<b>SUBSECTION:</b>	102.07.02 Computer Bidding.
<b>REVISION:</b>	Replace the subsection with the following:  Subsequent to ordering a Bid Proposal for a specific project, use the Department's Highway Bid Program on the internet web site of the Department of Highways, Division of Contract Procurement. Download the bid item quantities from the Department's web site to prepare a Bid Proposal for submission to the Department. Insert the completed bid item sheets printed from the Highway Bid Program into the Proposal and submit along with the disk created by said program. In case of a dispute, the Bid Proposal and bid item sheets created by the Highway Bid Program take precedence over any bid submittal. Furthermore the Department takes no responsibility for loss, damage of disks or the compatibility with the bidder's computer equipment or software.
<b>SUBSECTION:</b>	102.08 IRREGULAR BID PROPOSALS.
<b>REVISION:</b>	Add the following to the first set of items:  4) Fails to submit a disk created from the Highway Bid Program
<b>SUBSECTION:</b>	102.08 IRREGULAR BID PROPOSALS.
<b>REVISION:</b>	Replace 1) of the second set of items with the following:  1) when the Bid Proposal is on a form other than that furnished by the Department or printed from other than the Highway Bid Program , or when the form is altered or any part is detached.
<b>SUBSECTION:</b>	103.05 REQUIREMENT OF CONTRACT BOND.
<b>REVISION:</b>	Replace the first sentence of the first paragraph with the following:  To be acceptable to the Department, the surety must have a minimum A. M. Best rating of an "A-", be listed on the U.S. Treasury Listing of approved sureties for an amount equal to or greater than the amount of the bond and be an admitted carrier in the Commonwealth of Kentucky.  Replace the last sentence of the first paragraph with the following:  If at any time during the performance of the Contract the surety company falls below the minimum acceptable requirements, the Contractor shall file a new bond in an amount established by the Commissioner, or his designee, within 14 calendar days of such failure to meet the minimum requirements.  Add the following to the end of the subsection:  The Department reserves the right to copy the surety on all of its communications with the Contractor concerning the Contractor's performance, or performance deficiencies, on the project and further reserves the right to communicate directly with the surety to inform them of the Contractor's performance, or performance deficiencies, on the bonded project.
<b>SUBSECTION:</b>	108.02 PRECONSTRUCTION CONFERENCE.
<b>REVISION:</b>	Add the following to the first paragraph:  Include a plan for updating the schedule. As a minimum, the schedule must be updated whenever a situation arises or event occurs that significantly affects the progress of the work or when the Engineer directs.
<b>SUBSECTION:</b>	109.04.02 Cost-Plus Work.
<b>PART:</b>	F) Overhead.
<b>REVISION:</b>	Add the following new part:  F) Overhead. The Department will pay for overhead cost associated with administering the work, not to exceed 5 percent, when the work is done by a Subcontractor.

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<b>SUBSECTION:</b>	112.02.05 Temporary Pavement Markings.
<b>PART:</b>	C) Temporary Striping.
<b>NUMBER:</b>	2) Paint.
<b>REVISION:</b>	Replace with the following:  2) Paint. Conform to Section 842
<b>SUBSECTION:</b>	112.02.05 Temporary Pavement Markings.
<b>PART:</b>	C) Temporary Striping.
<b>NUMBER:</b>	3) Drop on Beads.
<b>REVISION:</b>	Replace with the following:  3) Drop on Beads. Conform to Section 839
<b>SUBSECTION:</b>	112.03.01 General Traffic Control.
<b>PART:</b>	G) Signs.
<b>REVISION:</b>	Replace the first sentence with the following:  Completely cover all lettering and symbols on existing, permanent, and temporary signs which do not properly apply to the current traffic phasing, and maintain the covering until the signs are applicable or are removed.
<b>SUBSECTION:</b>	112.03.01 General Traffic Control.
<b>PART:</b>	I) Temporary Traffic Signals.
<b>REVISION:</b>	Replace the MUTCD reference "Section 4B" with "Chapter 4D"
<b>SECTION:</b>	201 STAKING. Delete the section and replace with the following:  201.01 DESCRIPTION. When listed as a bid item, furnish all personnel, equipment, stakes, and hubs necessary to construct the roadway and appurtenant structures to the grade and alignment specified in the Contract. When no bid item is listed, the Department will perform staking.  201.02 MATERIALS AND EQUIPMENT. Reserved.  201.03 CONSTRUCTION  201.03.01 Contractor Staking. Perform all necessary surveying under the general supervision of a Professional Engineer or licensed Land Surveyor. The Department's Engineer will perform the following:  1) Provide adequate referencing of control points to allow prompt re-establishment of the survey centerline, right of way, ramps, crossroads, and frontage roads during construction. 2) Set permanent or temporary bench marks as required. 3) Take any cross sections to verify the accuracy of the original ground information. 4) Take "check sections" to verify that construction is to grade and alignment as specified in the Contract.  The Contractor will perform the following:  1) Re-establish the centerline and set such additional points as may be necessary for construction of the project. Verify the accuracy of the horizontal and vertical control as established by the Department's Engineer before beginning construction. 2) Establish clearing lines so that the project may be cleared without violating the limits of the right of way. 3) Set slope stakes right and left of the survey centerline at 50-foot to 100-foot intervals to guide the contractor in constructing the cuts and fills. These stakes are generally set to shoulder grade for fills and ditch grade for cuts. The cut or fill information, slope, and distance from centerline should be on the front face of the stake; the station number should be on the back of the stake. This stake should be guarded with a lath that has the station number written on the side facing the centerline.

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revision continued

4) Grade Stakes (Bluetops). Fine grade control will be set to aid the Contractor in establishing the typical sub-grade section. When using conventional transit and chain methods this fine grade control will be established by setting hubs(referred to as blue tops) every 50 feet to the sub-grade section. These blue tops are set to the hundredth of a foot in elevation and are located left and right of pavement centerline, usually at the edge of metal. Bluetops will be set for the top of sub-grade and the top of aggregate base and/or drainage blanket material. Refer to Section 204.03.10 and Section 302.03.06 for construction tolerances of sub-grade and aggregate base or drainage blanket.

5) Stake all structures (bridges, culverts, pipe, and other appurtenances) so that they can be built to the proper line and grade as shown on the plans and to perform the function for which they were designed.

201.03.02 Department Staking. The Department's Engineer will set all stakes necessary for the construction of the roadway and appurtenant structures to the proper grade and alignment in accordance with the contract.

201.03.03 Electronic Surveying. The Department encourages the use of new and advanced technology in the construction of its roads and structures. However, the following restrictions apply:

- 1) Tolerances are unchanged. Refer to Section 204.03.10 and Section 302.03.06.
- 2) Sub-grade check sections are to be done every 500 feet in tangent sections and every 100 feet in curves using conventional survey methods to establish bluetops and to verify the correct operation of the electronic equipment.
- 3) The Contractor will submit his electronic data files to the Department's Engineer at the beginning of the project so that the Engineer can reference the data for verification of the field work.

201.04 MEASUREMENT.

201.04.01 Contractor Staking. When listed as a bid item, the Department will measure staking as lump sum. The Department will not measure surveying required to correct any errors or inaccuracies resulting from construction operations for payment.

201.04.02 Department Staking. The Department will not measure quantities for payment. When any stakes are disturbed due to unwarranted negligence of the Contractor, the Department will measure the work required to reset the stakes and deduct the cost from monies due the Contractor.

201.05 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

Code	Pay Item	Pay Unit
2726	Staking	Lump Sum

The Department will consider payment as full compensation for all work required under this section.

**SUBSECTION:** 204.03.08 Disposal of Wasted Materials.

**REVISION:** Add the following to the end of the second paragraph:

The Department will pay for the geotechnical investigation and analysis of the proposed waste area when one is requested by the Engineer. Ensure all work is performed by a pre-qualified geotechnical consultant and according to the Department's Geotechnical Manual.

**SUBSECTION:** 206.04.01 Embankment-in-Place.

**REVISION:** Add the following:

The Department may make adjustments to embankment-in-place projects when there is actually unanticipated waste on the project. Waste generated by the project phasing will not be considered for adjustment. The Department will make an adjustment for the actual costs incurred by the Contractor.

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<b>SUBSECTION:</b>	208.03.03 Application of Chemical.
<b>PART:</b>	B) Lime.
<b>NUMBER:</b>	3)
<b>REVISION:</b>	Replace the second sentence with the following:  Use only when saturated soil conditions exist and the slurry method would worsen the situation or when weather conditions prohibit the use of slurry.
<b>SUBSECTION:</b>	208.03.06 Curing and Protection.
<b>REVISION:</b>	Replace the first sentence of the fourth paragraph with the following:  Do not allow any traffic or equipment on the finished surface until 7 days above 40 °F curing is completed or the roadbed cores achieve a minimum strength requirement of 75 psi.
<b>SUBSECTION:</b>	208.04.02 Lime.
<b>REVISION:</b>	Add the following to the end of the second paragraph:  When hydrate or quicklime is furnished for dry application, the Department will measure the actual quantity applied to the roadbed.
<b>SUBSECTION:</b>	212.03.03 Permanent Seeding and Protection.
<b>PART:</b>	A) Seed Mixtures for Permanent Seeding.
<b>REVISION:</b>	Replace with the following:  A) Seed Mixture for Permanent Seeding. Use seed Mixture No. I, No. III, or as the Contract specifies.  Mixture No. I:  75% Kentucky 31 Fescue ( <i>Festuca arundinacea</i> ) 10% Red Top ( <i>Agrostis alba</i> ) 5% White Dutch Clover ( <i>Trifolium repens</i> ) 10% Rygrass, perennial ( <i>Lolium perenne</i> )  Mixture No. III:  30% Kentucky 31 Fescue ( <i>Festuca arundinacea</i> ) 15% Red Top ( <i>Agrostis alba</i> ) 15% Partridge Pea ( <i>Cassia fasciculata</i> ) 20% Sericea Lespedeza 10% Sweet Clover – Yellow ( <i>Melilotus officinalis</i> ) 10% Rygrass, perennial ( <i>Lolium perenne</i> )
<b>SUBSECTION:</b>	212.03.03 Permanent Seeding and Protection.
<b>PART:</b>	B) Procedures for Permanent Seeding.
<b>REVISION:</b>	Add the following after the third sentence:  Remove all rock and dirt clods over 4 inches in diameter from the surface of the seedbed.
<b>SUBSECTION:</b>	212.03.03 Permanent Seeding and Protection.
<b>PART:</b>	C) Crown Vetch.
<b>REVISION:</b>	Replace the first sentence with the following:  Sow crown vetch seed on all areas having a slope 3:1 or steeper and consisting of soil or mixtures of broken rock and soil.
<b>SUBSECTION:</b>	212.03.03 Permanent Seeding and Protection.
<b>PART:</b>	E) Erosion Control Blanket.
<b>REVISION:</b>	Replace the first sentence with the following:  Install erosion control blankets in ditches, except those to be paved or rock lined, to a flow depth of 1.5 feet.
<b>SUBSECTION:</b>	213.03.02 Progress Requirements.
<b>REVISION:</b>	Replace the word “may” with “will” in the second sentence of the third paragraph.



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<b>SUBSECTION:</b>	213.03.02 Progress Requirements.
<b>REVISION:</b>	Replace the third sentence of the third paragraph with the following:  Additionally, the Department will apply a penalty equal to the liquidated damages when all aspects of the work are not coordinated in an acceptable manner within 5 days after written notification.
<b>SUBSECTION:</b>	214.04 MEASUREMENT.
<b>REVISION:</b>	Replace the second sentence with the following:  The Department will not measure fabric when the Contract indicates the fabric is incidental to the work or when the specification for another item requires incidental installation of geotextile fabric.
<b>SUBSECTION:</b>	302.02 MATERIALS.
<b>REVISION:</b>	Add the following:  302.02.03 Mixer. Equip the mixer with a water flow system with a positive cut-off control that will stop the flow of water simultaneously with any stoppage in the flow of aggregate and with valves or other devices that can be easily reset when a change in the rate of flow is desired.
<b>SUBSECTION:</b>	401.02.01 All Asphalt Mixing Plants.
<b>PART:</b>	A)
<b>REVISION:</b>	Replace the first sentence of the second paragraph with the following:  Provide a laboratory inspected and qualified according to the Department's Quality Assurance Program for Materials Testing and Acceptance and conforming to the following minimum requirements:
<b>SUBSECTION:</b>	401.02.01 All Asphalt Mixing Plants.
<b>PART:</b>	A)
<b>REVISION:</b>	Replace the fourth paragraph with the following:  In addition to the equipment required to perform testing according to the AASHTO standards and Kentucky Methods (KM), equip each laboratory with the following minimum furnishings and equipment, conforming to the applicable specifications, as required for the type of construction specified in the Contract:  1) one workbench, at least 2.5 feet wide by 6 feet long; 2) one desk or table and 2 chairs; 3) a fire extinguisher located near the door; and 4) a first aid kit.
<b>SUBSECTION:</b>	401.02.01 All Asphalt Mixing Plants.
<b>PART:</b>	Between Items "H" and "I"
<b>REVISION:</b>	Insert the following new item:  Recordation. Provide an automatic graphic or digital record of the production quantities according to AASHTO M156.
<b>SUBSECTION:</b>	401.02.01 All Asphalt Mixing Plants.
<b>PART:</b>	I) Thermometers.
<b>REVISION:</b>	Delete the third paragraph.
<b>SUBSECTION:</b>	401.02.04 Special Requirements for Continuous Plants.
<b>PART:</b>	B) Weight Calibration of Asphalt Binder and Aggregate Feed.
<b>REVISION:</b>	Add the following new paragraph:  When equipped with aggregate weighing devices (belt scales), calibrate each cold feeder, along with the aggregate weighing devices, according to Subsection 401.02.05 A) and B).
<b>SUBSECTION:</b>	402.03.01 Responsibilities.
<b>PART:</b>	B) Setup.
<b>REVISION:</b>	Replace (MSG) with ( $G_{mm}$ )
<b>SUBSECTION:</b>	402.03.01 Responsibilities.
<b>REVISION:</b>	Add the following:  C) Process Control. After the setup period, perform the process control operations of KM 64-426.

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<b>SUBSECTION:</b>	402.03.02 Acceptance.
<b>PART:</b>	A) General.
<b>REVISION:</b>	Add the following:  Document and report all acceptance tests on the Asphalt Mixtures Acceptance Workbook (AMAW). Submit the completed AMAW for each lot to the Department within 5 working days after the completion of the lot.
<b>SUBSECTION:</b>	402.03.02 Acceptance.
<b>PART:</b>	C) Setup.
<b>REVISION:</b>	Add the following after the second sentence:  For mixtures with a total-project quantity between 500 and 1,000 tons, perform a minimum of one process control test for AC, AV, and VMA, and report the results to the Engineer.  Add the following after the seventh sentence:  Ensure the adjusted AC remains above the minimums specified in Subsection 403.03.03 C) 2).
<b>SUBSECTION:</b>	402.03.03 Verification.
<b>REVISION:</b>	Replace the first two sentences with the following:  For volumetric properties, the Department will perform a minimum of one verification test for AC, AV, and VMA for each lot according to the corresponding procedures as given in Subsection 402.03.02. For specialty mixtures, the Department will perform one AC and one gradation determination per lot according to the corresponding procedures as given in Subsection 402.03.02. However, Department personnel will not perform AC determinations according to KM 64-405.
<b>SUBSECTION:</b>	402.05.02 Asphalt Mixtures and Mixtures with RAP.
<b>PART:</b>	D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.
<b>REVISION:</b>	Replace with the following:  The Department will pay as mainline mixture but use a 1.00 pay value for all properties.
<b>SUBSECTION:</b>	402.05.01 Specialty Mixtures.
<b>REVISION:</b>	Add "asphalt mixtures for temporary applications" to the list of defined specialty mixtures.
<b>SUBSECTION:</b>	403.02.05 Release Agent.
<b>REVISION:</b>	Replace with the following:  Provide materials conforming to KM 64-422.
<b>SUBSECTION:</b>	403.02.06 Transport Equipment.
<b>REVISION:</b>	Add the following after the first sentence:  Do not load trucks that are contaminated with an unapproved release agent. When such contamination is identified after loading, reject the load. In either case, remove the truck and respective driver from the project for the duration of the project.
<b>SUBSECTION:</b>	403.02.09 Small Tools and Portable Equipment.
<b>REVISION:</b>	Add the following at the end of the first paragraph:  Do not use an unapproved release agent on any small tools or equipment incidental to the paving operation.
<b>SUBSECTION:</b>	403.03.01 Seasonal and Weather Limitations.
<b>REVISION:</b>	Replace "November 15" with "November 30" throughout the Subsection.
<b>SUBSECTION:</b>	403.03.02 Preparation of Base.
<b>REVISION:</b>	Replace the first sentence of the eighth paragraph with the following:  Remove existing Type V markers. Fill the recess and any additional damaged area with compacted asphalt mixture within 24 hours of removal.

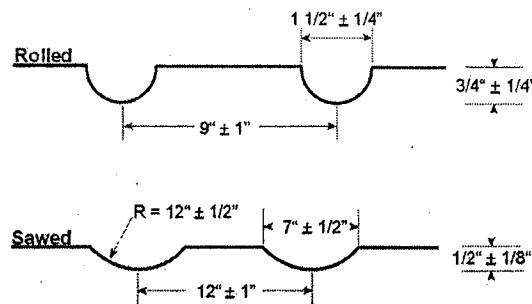
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<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>403.03.03 Preparation of Mixture. A) Mixture Composition. Replace Part A) with the following:</p> <p>A) Mixture Composition. Provide the appropriate mixture composition for the specified asphalt mixture, or substitute a higher aggregate type. When substituting a mixture of a higher ESAL class, provide a mixture of no more than one ESAL class higher than the specified asphalt mixture. Conform to the gradation requirements (control points) of AASHTO MP2 for the Superpave mixture. Unless the Engineer authorizes otherwise in writing, use the same type and source of ingredient aggregates and asphalt binder throughout the entire project for each type of mixture. For asphalt surface courses containing 100 percent polish-resistant coarse aggregate, limit the portion of non-polish-resistant fine aggregate retained on a No. 4 sieve to 5 percent of the total combined aggregates.</p> <p>When using a porous aggregate, increase the asphalt binder content (AC) as needed for asphalt binder absorption by the aggregate.</p> <p>The following aggregate requirements are listed in order of the highest, Type A, to the lowest, Type D:</p> <ol style="list-style-type: none"> <li>1) Type A. Provide 100 percent of the coarse aggregate Class A sources. Ensure that 20 percent of the total combined aggregate is Class A polish-resistant fine aggregate.</li> <li>2) Type B. Select either of the 2 following options: <ol style="list-style-type: none"> <li>a) Provide 100 percent of the coarse aggregate from Class B sources.</li> <li>b) Provide a combined aggregate, retained on the No. 4 sieve, that is a minimum of 50 percent from any Class A polish-resistant aggregate source except those identified as "Not Permitted as the polish-resistant portion of Class B blends." Submit all Class B blends to the Department for review.</li> </ol> </li> </ol> <p>For Option a) or b) above, ensure one of the following:</p> <ul style="list-style-type: none"> <li>• 20 percent or more of the total combined aggregate is Class A polish resistant fine aggregate.</li> <li>• 30 percent or more of the total combined aggregate is Class B polish resistant fine aggregate.</li> <li>• 30 percent or more of the total combined aggregate is a combination of Class A and Class B polish resistant fine aggregate.</li> </ul> <ol style="list-style-type: none"> <li>3) Type C. Ensure that 40 percent or more of the total combined aggregate is polish-resistant; Class A coarse, fine, or combination.</li> <li>4) Type D. No restriction on aggregate type.</li> </ol>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>403.03.03 Preparation of Mixture. B) Moisture Content of Mix Replace the third sentence with the following:</p> <p>When moisture contents are 0.10 percent or greater, adjust the AC determination made on plant-produced mixture to reflect the actual AC as KM 64-434 directs.</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>403.03.03 Preparation of Mixture. C) Mix Design Criteria. Replace the first sentence with the following:</p> <p>Conform to the gradation requirements (control points) of AASHTO MP2 for the Superpave mixture type the Contract specifies.</p>

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<b>SUBSECTION:</b>	403.03.03 Preparation of Mixture.
<b>PART:</b>	C) Mix Design Criteria.
<b>NUMBER:</b>	1)
<b>REVISION:</b>	Replace the first sentence with the following:  Submit a preliminary mix design, completed using a Superpave gyratory compactor (SGC) conforming to AASHTO PP 35.  Add the following after the second sentence:  The Department will require a dust-to-binder range of 0.8 to 1.6.
<b>SUBSECTION:</b>	403.03.03 Preparation of Mixture.
<b>PART:</b>	C) Mix Design Criteria.
<b>NUMBER:</b>	2) Selection of Optimum AC.
<b>REVISION:</b>	Add the following:  Ensure the optimum AC is a minimum of 5.0 percent by weight of the total mixture for all 0.5-inch nominal surface mixtures and 5.3 percent by weight of the total mixture for all 0.38-inch nominal surface mixtures.
<b>SUBSECTION:</b>	403.03.06 Thickness Tolerance.
<b>TABLE:</b>	Nominal Maximum Size of Mixture vs. Thickness Range
<b>REVISION:</b>	Delete
<b>SUBSECTION:</b>	403.03.08 Rumble Strips.
<b>REVISION:</b>	Replace with the following:  A) Interstates and Parkways. Construct sawed rumble strips on all mainline and ramp shoulders to the dimensions shown below.  B) Other Roads. When using a surface mixture instead of Asphalt Mixture for Pavement Wedge, or when the Engineer deems it appropriate to pave the driving lanes and the adjacent shoulder monolithically, provide rolled rumble strips. Construct strips on all main line shoulders to the dimensions shown below. When furnishing Asphalt Mixture for Pavement Wedge, binder, or a base mixture for shoulders, the Department will not require rumble strips. Time the rolling operation so indentations are at the specified size and depth without causing unacceptable displacement of the asphalt mat. Correct unacceptable rolled-in rumble strips by sawing. On shoulders less than 3 feet, shorten the length and distance of the strips as the Engineer directs. If preferred, construct the rumble strips by sawing as specified for Interstates and Parkways.

**RUMBLE STRIP DIMENSIONS**



Distance from the edge of the mainline pavement to the end of the strip: 1 foot  
Length of strips: Rolled 2 feet, Sawed 16 inches

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<b>SUBSECTION:</b>	403.03.09 Leveling and Wedging, and Scratch Course.
<b>PART:</b>	A) Leveling and Wedging.
<b>REVISION:</b>	Replace the first sentence with the following:  Conform to the gradation requirements (control points) for base, binder, or surface as applicable.
<b>SUBSECTION:</b>	403.03.09 Leveling and Wedging, and Scratch Course.
<b>PART:</b>	B) Scratch Course.
<b>REVISION:</b>	Replace the second sentence with the following:  Conform to the gradation requirements (control points) for base, binder, or surface as the Engineer directs.
<b>SUBSECTION:</b>	403.04.03 Asphalt Mixtures.
<b>REVISION:</b>	Add the following:  The Department will not measure rumble strips for payment and will consider them incidental to this bid item.
<b>SECTION:</b>	404 OPEN-GRADED FRICTION COURSE
<b>TABLE:</b>	LOT PAY ADJUSTMENT SCHEDULE FOR SPECIALTY MIXTURES
<b>REVISION:</b>	Replace the table with the following table:

LOT PAY ADJUSTMENT SCHEDULE FOR SPECIALTY MIXTURES (TEST DEVIATION FROM JMF)		
	Pay Value	Deviation From JMF (%)
Asphalt	1.00	0.0-0.5
Binder	0.98	0.6
Content	0.95	---
	0.90	0.7
	0.85	0.8
	0.75	≥ 0.9
1 1/2 inch Sieve	1.00	0-13
	0.98	14
	0.95	15-16
	0.90	17-20
	0.85	21-23
	0.75	≥ 24
1 inch, 3/4 inch, and 1/2 inch Sieves	1.00	0-9
	0.98	10
	0.95	11-12
	0.90	13-14
	0.85	15-16
	0.75	≥ 17
3/8 inch, No. 4, No. 8, No. 16, and No. 30 Sieves	1.00	0-8
	0.98	9
	0.95	10
	0.90	11-12
	0.85	13-14
	0.75	≥ 15
No. 50 Sieve	1.00	0-6
	0.98	7
	0.95	8
	0.90	9
	0.85	10
	0.75	≥ 11
No. 100 Sieve	1.00	0-3
	0.98	---
	0.95	4
	0.90	5
	0.85	---
	0.75	≥ 6
No. 200 Sieve	1.00	0.0-2.0
	0.98	2.5
	0.95	3.0
	0.90	---
	0.85	3.5
	0.75	≥ 4.0
Fineness Modulus	1.00	0.0-0.30
	0.98	0.31-0.34
	0.95	0.35-0.39
	0.90	0.40-0.46
	0.85	0.47-0.55
	0.75	≥ 0.56

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<b>SUBSECTION:</b>	406.02.01 Tack Coat.																					
<b>REVISION:</b>	Replace with the following:  Furnish any of the following asphalt materials conforming to 806: SS-1, SS-1h, or RS-1.																					
<b>SUBSECTION:</b>	406.02.03 Curing Seal.																					
<b>REVISION:</b>	Replace with the following:  Furnish any of the following asphalt materials conforming to 806: RS-1, RS-2, SS-1, SS-1h, or Primer L.																					
<b>SUBSECTION:</b>	406.03.03 Application.																					
<b>REVISION:</b>	Replace the temperature table with the following:  Primer L      60-120 °F SS-1, SS-1h    70-160 °F RS-1, RS-2    70-140 °F																					
<b>SUBSECTION:</b>	406.03.03 Application.																					
<b>PART:</b>	B) Asphalt Tack Coat.																					
<b>REVISION:</b>	Replace the second paragraph with the following:  When furnishing RS-1 for tack, apply it undiluted.  Replace the first sentence of the third paragraph with the following:  When furnishing SS-1 or SS-1h for tack, the Department will allow diluted or undiluted application provided uniform and complete coverage is achieved.																					
<b>SUBSECTION:</b>	407.02.02 Aggregate.																					
<b>REVISION:</b>	Change Sieve Size No. 30 to read Sieve Size No. 50.																					
<b>SUBSECTION:</b>	408.04.02 Mobilization for Asphalt Pavement Milling and Texturing.																					
<b>REVISION:</b>	Add the following:  For group contracts, the Department will measure the quantity for each project (subsection) that has a bid item for Mobilization for Asphalt Pavement Milling and Texturing.																					
<b>SUBSECTION:</b>	409.02 MATERIALS AND EQUIPMENT.																					
<b>REVISION:</b>	Replace "KM 64-427" with the following:  the guidelines in Subsection 409.03.02																					
<b>SUBSECTION:</b>	409.03.01 Restrictions.																					
<b>REVISION:</b>	Add the following sentence:  When the mixture's bid item specifies PG 76-22, limit RAP content to 20 percent or less.																					
<b>SUBSECTION:</b>	409.03.02 Preparation of Mixture.																					
<b>PART:</b>	A) Mix Requirements.																					
<b>REVISION:</b>	Void the Revision and replace with the following:  Conform to the Contract requirements for each mixture produced using RAP. If mixtures produced using RAP do not conform to the requirements for that mixture, complete the project using all virgin materials at no additional expense to the Department. Conform to the following table to select the appropriate grade of virgin asphalt binder to blend with the RAP:																					
<table><tr><th rowspan="2">Mixture's Bid Item</th><th colspan="3">Appropriate Virgin Asphalt Binder</th></tr><tr><th>0-20% RAP</th><th>21-30% RAP</th><th>&gt;30% RAP</th></tr><tr><td>PG 76-22</td><td>PG 76-22</td><td>-</td><td>-</td></tr><tr><td>PG 70-22</td><td>PG 70-22</td><td>PG 64-22</td><td>*</td></tr><tr><td>PG 64-22</td><td>PG 64-22</td><td>PG 64-22</td><td>*</td></tr></table>				Mixture's Bid Item	Appropriate Virgin Asphalt Binder			0-20% RAP	21-30% RAP	>30% RAP	PG 76-22	PG 76-22	-	-	PG 70-22	PG 70-22	PG 64-22	*	PG 64-22	PG 64-22	PG 64-22	*
Mixture's Bid Item	Appropriate Virgin Asphalt Binder																					
	0-20% RAP	21-30% RAP	>30% RAP																			
PG 76-22	PG 76-22	-	-																			
PG 70-22	PG 70-22	PG 64-22	*																			
PG 64-22	PG 64-22	PG 64-22	*																			
* Select according to KM 64-427																						

\* Select according to KM 64-427

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<b>SUBSECTION:</b>	410.05 PAYMENT.
<b>REVISION:</b>	Replace the RIDE QUALITY ADJUSTMENT SCHEDULE with the following 2 schedules:
<b>RIDE QUALITY ADJUSTMENT SCHEDULE FOR ROADS POSTED GREATER THAN 45 MPH</b>	
<b>IRI</b>	<b>Pay Value<sup>(1)</sup></b>
36 or Less	+0.15
37 to 46	= 0.015 x (47 - IRI)
47 to 66	0.00
67 to 76	= 0.015 x (67 - IRI)
77 or higher	Corrective work or replacement required
<b>RIDE QUALITY ADJUSTMENT SCHEDULE FOR ROADS POSTED 45 MPH OR LESS</b>	
<b>Rideability Index</b>	<b>Pay Value<sup>(1)</sup></b>
36 or Less	+0.15
37 to 46	= 0.015 x (47 - IRI)
47 to 85	0.00
86 or lower	Corrective work or replacement required
<sup>(1)</sup> The Department will not apply a positive pay value for corrective work other than removal and replacement to achieve the IRI	
<b>SUBSECTION:</b>	501.03.13 Finishing.
<b>PART:</b>	H) Texturing.
<b>REVISION:</b>	Replace the third paragraph with the following:
	Form transverse grooves in the concrete with a width between 0.09 inch and 0.13 inch and a depth between 0.12 inch and 0.19 inch. Space the grooves at random intervals between 0.4 inch to 1.5 inches with no more than 50 percent of the spacing being one inch or greater.
<b>SUBSECTION:</b>	502.03 CONSTRUCTION.
<b>PART:</b>	D) Strength Testing and Opening to Traffic.
<b>NUMBER:</b>	1) Cylinders.
<b>REVISION:</b>	Replace the first sentence with the following:
	The Department will cast, cure, and test 3 sets from each 150 cubic yards of concrete.
<b>SUBSECTION:</b>	503.03.09 Ride Quality.
<b>REVISION:</b>	Replace item 4) with the following:
	Achieve an IRI of 63 or less for each traffic lane with no individual one-mile section having an IRI of greater than 76.
<b>SUBSECTION:</b>	506.03.01 Header Curb, Valley Gutter, and Curb and Gutter (Combination).
<b>REVISION:</b>	In the second sentence of the third paragraph replace the Subsection reference 601.03.12 with 501.02.10. In the second sentence of the sixth paragraph replace the Subsection reference 601.03.16 with 501.03.17 D).
<b>SUBSECTION:</b>	508.03.03 Precast Construction.
<b>REVISION:</b>	Replace "Subsection 605.03" in the first sentence with Section 605.
<b>SUBSECTION:</b>	509.03 CONSTRUCTION.
<b>REVISION:</b>	Replace "Subsection 605.03" in the first sentence with Section 605.
<b>SUBSECTION:</b>	601.02.13 Forms.
<b>PART:</b>	F) Stay-In-Place Metal Forms.
<b>NUMBER:</b>	1) Forms and Supports.
<b>REVISION:</b>	Replace ASTM A 446 with ASTM A 653. Replace ASTM A 525 with ASTM A 924.

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<b>SUBSECTION:</b>	601.03.03 Proportioning and Requirements.
<b>PART:</b>	A) Concrete.
<b>TABLE:</b>	INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS CLASSES OF CONCRETE
<b>REVISION:</b>	Add the following foot note to AA Slump:  <i>The Department may allow the slump of AA concrete to be increased up to a 6 inch maximum, provided the w/c ratio does not exceed 0.40 and a high range water reducer (Type F or G) is used. Trial Batches will be required if producer has not previously supplied.</i>
<b>SUBSECTION:</b>	601.03.03 Proportioning and Requirements.
<b>PART:</b>	A) Concrete.
<b>TABLE:</b>	INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS CLASSES OF CONCRETE
<b>REVISION:</b>	Replace note 11 with the following:  <i>Compressive Strength Testing, Opening to Traffic and Acceptance Requirements for Class M1 and Class M2. Test one set of cylinders at <math>24 \pm 0.5</math> hours from the time of molding, and allow the resulting average strength to dictate one of the following actions:</i>  <i>(a) If the average compressive strength is 3,500 psi or above, open to traffic, and test the remaining set of cylinders at an age of 7 days or 28 days.</i> <i>(b) If the average compressive strength is between 3,000 and 3,500 psi, open to traffic, and test the remaining set of cylinders at <math>48 \pm</math> one hour.</i> <i>(c) If the average compressive strength is less than 3,000 psi, protect the item as directed or approved. Test the remaining set of cylinders at <math>48 \pm</math> one hour.</i> <i>If the average strength of the cylinders tested at <math>48 \pm</math> one hour is 3,500 psi or above, the Engineer will consider the concrete acceptable. If the average strength is below 3,500 psi, take 2 cores from the concrete and test at an age of 7 days. If the average strength of the cores tested at 7 days is 4,000 psi, the Engineer will consider the concrete acceptable.</i> <i>When 2 consecutive first sets of cylinders or when 2 first sets out of any 4 first sets of cylinders do not reach 3,500 psi, compressive strength, the Engineer will suspend the work. Resume work when the Engineer approves the adjusted mix design.</i> <i>Cast 2 sets of cylinders from the concrete used for each placement.</i> <i>Cast the cylinders after tests verify that the concrete conforms to slump and air content requirements. Make and cure the cylinders according to the procedures outlined in KM 64-305. Department personnel will test the mixture and cast cylinders.</i>
<b>SUBSECTION:</b>	601.03.03 Proportioning and Requirements.
<b>PART:</b>	C) Mixtures Using Type IP, IS and I(SM) Cement or Mineral Admixtures.
<b>NUMBER:</b>	2) Mineral Admixtures.
<b>REVISION:</b>	Add the following after the first sentence:  Reduction of the total cement content by a combination of any mineral admixtures will be allowed, up to a maximum of 30 percent.
<b>SUBSECTION:</b>	601.03.03 Proportioning and Requirements.
<b>PART:</b>	C) Mixtures Using Type IP Cement or Mineral Admixtures.
<b>NUMBER:</b>	2) Mineral Admixtures.
<b>LETTER:</b>	b) Ground Granulated Blast Furnace Slag (GGBF Slag).
<b>REVISION:</b>	Replace the first sentence with the following:  When added as a separate ingredient, use Grade 120 GGBF or 100 GGBF slag to reduce the quantity of cement, except do not use GGBF slag to reduce the quantity of Type IS or I(SM) cement.
<b>SUBSECTION:</b>	601.03.04 Classes and Primary Uses.
<b>PART:</b>	P) Non-Shrink Grout.
<b>REVISION:</b>	Replace with the following:  Bonding and sealing for post-tensioning, tie-back rods and bolts, and box beams.



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<b>SUBSECTION:</b>	601.03.09 Placing Concrete.
<b>PART:</b>	A) General.
<b>REVISION:</b>	Add the following to the fifth paragraph:  When pumping, equip the delivery pipe with a nozzle, having a minimum of 2 right angles, at the discharge end.
<b>SUBSECTION:</b>	601.03.09 Placing Concrete.
<b>PART:</b>	D) Weather Limitations.
<b>REVISION:</b>	Replace the first sentence of the second paragraph with the following:  Maintain the temperature of the mixture at or below 90 °F during placement. Unless the Engineer determines that safety concerns or other considerations prohibit a shutdown, cease concrete production when the mixture exceeds 90 °F until adequate methods are in place to reduce or maintain the mixture temperature.
<b>SUBSECTION:</b>	601.03.15 Opening to Traffic.
<b>TABLE:</b>	Required Time in Calendar Days Before Applying Significant Loads on Concrete Structures
<b>REVISION:</b>	Change the title of the seventh item to the following:  Caps on Concrete Pile Bents, Open Column Abutments, and Piers
<b>SUBSECTION:</b>	606.02 MATERIALS AND EQUIPMENT.
<b>REVISION:</b>	Add the following subsection:  606.02.11 Coarse Aggregate. Conform to Section 805, size 9-M.
<b>SUBSECTION:</b>	607.03.05 Bolted Connections Using High-Strength Steel Bolts.
<b>PART:</b>	B) Direct Tension Indicators.
<b>REVISION:</b>	Replace the first two sentences of the third paragraph with the following:  Under normal conditions, install the tension indicator under the non-turned element of the fastening system. Obtain the Engineer's permission before installing tension indicators under the turned element. If the Engineer determines that it is necessary to install the tension indicator under the turned element, install additional hardened washers according to the manufacturer's instructions.  Add the following to the end of the fourth paragraph:  The fastener assembly may also need to be replaced.
<b>SUBSECTION:</b>	607.03.08 Planing and Finishing.
<b>PART:</b>	B) Flame Cutting.
<b>REVISION:</b>	Replace the first sentence of the second paragraph with the following:  Remove roughness exceeding these values and occasional notches or gouges no more than 3/16 inch deep, on otherwise satisfactory surfaces, by machining or grinding.

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<b>SUBSECTION:</b>	607.03.23 Cleaning and Painting.
<b>PART:</b>	D) Preparation for Field Coatings.
<b>REVISION:</b>	Replace the second and third paragraphs with the following:  After erection, including all bolting and remedial work, prepare the shop applied zinc coating for field applied intermediate coating as follows. Remove all grease, oil or other lubricants from all surfaces to be painted including lubricant or residuals from the surfaces of all galvanized nuts, bolts and washers by solvent cleaning according to SSPC SP 1. When dry overspray from the shop applied zinc coating exists, remove by sanding. High pressure water wash all structural steel at 4,500 to 5,000 psi. using clean potable water. As needed, use a non-sudsing, bio-degradable detergent to remove all surface contaminants not removed by high pressure water washing. Rinse all areas where a detergent and/or solvent was applied by pressure washing with clean potable water. Blast clean all surfaces sustaining damage to the shop applied zinc coating to the pictorial standards described in subsection B. Apply a field coat of approved zinc rich coating to all areas not possessing an acceptable shop applied zinc coating. Completely remove all rust, scale and other foreign material before applying the intermediate coating.  When application of the finish coat exceeds the recoat window of the intermediate coat, abrade the surface of the intermediate coat according to the coating manufacturer's recommendations before applying the finish coat.
<b>SUBSECTION:</b>	607.03.23 Cleaning and Painting.
<b>PART:</b>	E) Application of Field Coatings.
<b>REVISION:</b>	Replace the second paragraph with the following:  Apply paint only to clean and dry surfaces when the ambient air temperature is 40 °F or greater, the surface temperature of the steel members to be painted is at least 5 °F above the dew point, and the relative humidity is less than 90 percent. Do not apply paint to damp or frosted surfaces, nor during any period of rainfall.  Replace the fifth paragraph with the following:  Paint from the top of the structure toward the bottom, and proceed by sections, bays, or parts of the work, unless the Contract or Engineer directs otherwise.
<b>SUBSECTION:</b>	611.02.01 Concrete.
<b>REVISION:</b>	Replace the first sentence with the following:  Conform to ASTM C 1433.
<b>SUBSECTION:</b>	611.03.01 Transportation and Handling.
<b>REVISION:</b>	Replace the first sentence with the following:  Handle and store the precast units so that flexural stresses are not induced until the concrete age is 7 days or attains a compressive strength of 3,000 psi.
<b>SUBSECTION:</b>	611.03.02 Precast Unit Construction.
<b>REVISION:</b>	Add the following:  4) Contrary to ASTM C 1433 Section 10.3, assure the compressive strength of the cores tested are equal to or greater than the design strength.
<b>SUBSECTION:</b>	611.03.07 Joints.
<b>PART:</b>	A) Rubber Gaskets.
<b>REVISION:</b>	Replace the title with the following:  A) Butyl Rubber Sealant.
<b>SUBSECTION:</b>	611.03.07 Joints.
<b>PART:</b>	B) Flexible Plastic Gaskets.
<b>REVISION:</b>	Replace the title with the following:  B) Rubber Gaskets.

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<b>SUBSECTION:</b>	613.05 PAYMENT.
<b>REVISION:</b>	Replace 8160 Structure Excavation with the following:  2203 Structure Excavation Unclassified
<b>SUBSECTION:</b>	614.02.01 Paint.
<b>REVISION:</b>	Add the following:  Furnish a paint system in which all coats are produced by the same manufacturer and use the same system throughout the entire project.
<b>SUBSECTION:</b>	614.03.06 Paint Application.
<b>REVISION:</b>	Replace the first sentence of the fourth paragraph with the following:  Paint from the top of the structure toward the bottom, and proceed by sections, bays, or parts of the work, unless the Contract or Engineer directs otherwise.
<b>SUBSECTION:</b>	701.02.03 Joint Materials.
<b>PART:</b>	D) Flexible Plastic Gaskets.
<b>REVISION:</b>	Replace with the following:  D) Butyl Rubber Sealants. Conform to Section 807.
<b>SUBSECTION:</b>	701.02.04 Bedding Materials.
<b>REVISION:</b>	Replace the first sentence with the following:  Use No. 8 aggregate, No. 9 aggregate, or a fine aggregate conforming to Subsection 804.08 for bedding material.
<b>SUBSECTION:</b>	701.02.04 Bedding Materials.
<b>TABLE:</b>	A1, A2, and A3 Characteristics
<b>REVISION:</b>	Under A3, replace "51 max" with "51 min"
<b>SUBSECTION:</b>	702.03.05 Joints.
<b>PART:</b>	A) Reinforced Concrete Pipe.
<b>NUMBER:</b>	2) Rubber Gaskets.
<b>REVISION:</b>	Replace with the following:  In addition to the requirements of Subsection 701.02, use a pipe section conforming to AASHTO M 315. Use the gasket manufacturer's recommended cement and lubricant. Snugly fit the rubber gasket in the beveled surface of the tongue and groove ends of the sections to form a flexible seal under all conditions of service.
<b>SUBSECTION:</b>	701.03.05 Joints.
<b>PART:</b>	B) Corrugated Metal Pipe.
<b>REVISION:</b>	Void the Revision and replace with the following:  Construct joints using a band with annular corrugations and a bolt, bar and strap connection. Use a minimum nominal band width of 12 inches for all pipe diameters 54 inches and smaller. Use a two-piece band with a minimum nominal width of 20 inches for all pipe diameters greater than 54 inches. Manufacture the band from the same base materials as the pipe. The pipe bands may be up to two gauges lighter than the pipe it is joining, with a minimum gauge thickness of 16. The Department may allow dimple band connections for field cut pipe. Install the connecting bands according to the manufacturer's written recommendations.
<b>SUBSECTION:</b>	703.02.09 Geotextile Fabric.
<b>REVISION:</b>	Replace Section reference 845 with 843.
<b>SUBSECTION:</b>	703.04.08 Geotextile Fabric.
<b>REVISION:</b>	Add the subsection:  703.04.08 Geotextile Fabric. The Department will measure the quantity according to Subsection 214.04.
<b>SUBSECTION:</b>	710.02 MATERIALS.
<b>REVISION:</b>	Add the following Subsection:  710.02.15 High Density Polyethylene (HDPE) Adjusting Rings. Conform to Section 846.

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<b>SUBSECTION:</b>	710.03.01 Newly Constructed Small Drainage Structures.
<b>PART:</b>	A) General.
<b>REVISION:</b>	Replace the last sentence of the sixth paragraph with the following:  Use precast concrete, precast concrete pipe sections, cast-in-place, brick, or HDPE adjusting rings for adjustment of existing manholes according to the Standard Specifications.
<b>SUBSECTION:</b>	710.03.01 Newly Constructed Small Drainage Structures.
<b>PART:</b>	B) Precast Structures Except Manholes.
<b>REVISION:</b>	Replace the first two sentences with the following:  Only furnish products manufactured by a precast producer listed in the Department's List of Approved Materials. If the producer does not have an approved drawing for the product, submit 5 copies of shop drawings to the Engineer for review and approval.
<b>SUBSECTION:</b>	710.03.03 Adjusted Small Drainage Structures.
<b>REVISION:</b>	Add the following sentence to the end of the first paragraph:  For HDPE adjusting rings, install and seal according to the manufacturer's recommendations.
<b>SUBSECTION:</b>	712.03.02 Type V Markers.
<b>REVISION:</b>	Replace the first sentence of the first paragraph with the following:  Install Type V Markers in slots cut into the pavement according to the manufacturer's recommendations.  Delete the last paragraph.
<b>SUBSECTION:</b>	713.02.02 Drop on Glass Beads.
<b>REVISION:</b>	Replace with the following:  Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings.
<b>SECTION:</b>	713 PERMANENT PAVEMENT STRIPING.
<b>REVISION:</b>	Add the following subsection:  713.03.06 Acceptance of Non-Specification Markings. If weather conditions allow, perform corrective work to bring striping retroreflectivity into conformance. If corrective work has been performed and the work meets all requirements except for minimum retroreflectivity, the Department may accept the work according to Subsection 105.04. When the Engineer determines that the markings may be left in place, the Department will accept them at a reduction in the Contract unit bid price according to the Acceptance Pay Schedule. Additionally, the Engineer may remove the striping crew for the remainder of the project according to Subsection 108.06 Part A).  The Engineer may also apply this section when corrective work cannot be performed due to weather.  Acceptance Pay Schedule – White 156 to 174 mcd/lux/square meter – 50% pay 138 to 155 mcd/lux/square meter – 25% pay 120 to 137 mcd/lux/square meter – 0% pay < 120 mcd/lux/square meter – unacceptable  Acceptance Pay Schedule – Yellow 126 to 149 mcd/lux/square meter – 50% pay 103 to 125 mcd/lux/square meter – 25% pay 80 to 102 mcd/lux/square meter – 0% pay < 80 mcd/lux/square meter – unacceptable

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<b>SUBSECTION:</b>	713.03 CONSTRUCTION.
<b>REVISION:</b>	Replace the MUTCD references to "Part III" with "Part 3"
<b>SUBSECTION:</b>	714.02.03 Binder.
<b>REVISION:</b>	Replace the last sentence with the following:  Submit the material and method of application to the Engineer and obtain written approval from the Engineer and the manufacturer of the pavement marking material before applying.
<b>SUBSECTION:</b>	714.02.04 Drop on Glass Beads.
<b>REVISION:</b>	Replace with the following: Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings.
<b>SUBSECTION:</b>	714.03 CONSTRUCTION.
<b>REVISION:</b>	Replace the MUTCD references to "Part III" with "Part 3" and figure references to "3-11 and 3-12" with "3B-8 and 3B-9"
<b>SUBSECTION:</b>	714.03.01 Layout.
<b>REVISION:</b>	Replace the MUTCD reference to "Part III" with "Part 3"
<b>SUBSECTION:</b>	714.03.03 Application.
<b>PART:</b>	A) Type I Tape.
<b>REVISION:</b>	Add the following:  When applied to concrete, cut the tape at all joints.
<b>SUBSECTION:</b>	714.03.04 Restrictions.
<b>REVISION:</b>	Replace the first paragraph with the following:  Do not apply the pavement marking material when air and pavement temperatures are below 50 °F.  Delete the third paragraph.
<b>SUBSECTION:</b>	714.03.06 Proving Period for Durable Markings.
<b>PART:</b>	A) Requirements.
<b>NUMBER:</b>	1) Type I Tape.
<b>REVISION:</b>	Add the following:  Type I Tape is manufactured off site and warranted by the manufacturer to meet certain retroreflective requirements. As long as the material is adequately bonded to the surface and shows no sign of failure due to the other items listed in Subsection 714.03.06 A) 1), retroreflectivity readings will not be required. In the absence of readings, the Department will accept tape based on a nighttime visual observation.
<b>SUBSECTION:</b>	714.03.06 Proving Period for Durable Markings.
<b>PART:</b>	A) Requirements.
<b>NUMBER:</b>	2) Thermoplastic.
<b>REVISION:</b>	Replace the first sentence of the second paragraph with the following:  The minimum retroreflectivity requirements at the end of the proving period, as measured with a LTL 2000, LTL 2000Y, or Department approved 30M geometry mobile instrument are as follows:  Replace the first sentence of the third paragraph with the following:  The Department will take these measurements between 150 and 210 days after the start of the proving period, basing acceptance on KM 202 for LTL 2000 readings and KM 203 for mobile readings.
<b>SUBSECTION:</b>	714.05 PAYMENT.
<b>REVISION:</b>	Replace with the following:  The Department will make payment upon completion of the work. If after the proving period the markings do not meet minimum retroreflectivity requirements, the Department will adjust the payment or require corrective work according to the following:

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<b>SUBSECTION:</b>	717.02.04 Drop on Glass Beads.
<b>REVISION:</b>	Replace with the following: Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings.
<b>SECTION:</b>	804.03 Concrete.
<b>REVISION:</b>	Replace the last sentence with the following:  The Department will waive the requirements for gradation, sand equivalent, and uncompacted voids for concrete pipe.
<b>SUBSECTION:</b>	804.04.04 Requirements for Combined Aggregates.
<b>PART:</b>	B) Sand Equivalent.
<b>REVISION:</b>	Replace the third paragraph with the following:  The Department may waive the sand equivalent requirement provided the portion of the combined aggregate passing the No. 40 sieve is non-plastic according to AASHTO T 90.
<b>SUBSECTION:</b>	804.04.04 Requirements for Combined Aggregates KM.
<b>TABLE:</b>	Superpave Fine Aggregate Consensus Property Requirements.
<b>REVISION:</b>	For ESAL Class 1, Replace both dashes with 40.
<b>SUBSECTION:</b>	805.03.01 Soundness and Shale.
<b>PART:</b>	AGGREGATE USE/Portland Cement Concrete Mixtures.
<b>REVISION:</b>	Replace the title use "Class AA, Class S and Bridge Deck Overlays" with "Aggregate for Bridge Decks, Bridge Deck Overlays, and Bridge Barrier Walls"
<b>SECTION:</b>	805 COARSE AGGREGATES.
<b>TABLE:</b>	Sizes of Coarse Aggregates.
<b>REVISION:</b>	Replace KM 64-420 in footnote (1) with KM 64-620.
<b>SECTION:</b>	805 COARSE AGGREGATES.
<b>TABLE:</b>	Aggregates Size Use.
<b>REVISION:</b>	For Cement Concrete Structures and Incidental Construction add 9-M for Overlays to the sizes to be used column.
<b>SUBSECTION:</b>	805.03.03 Gradation.
<b>REVISION:</b>	Replace the last sentence with the following:  The Department will allow blending of same source/same type aggregate to achieve designated sizes when precise procedures are used such as cold feeds, belts, weigh hoppers, or equivalent.
<b>SUBSECTION:</b>	805.03.04 Erodible or Unstable Material.
<b>REVISION:</b>	Add the subsection:  805.03.04 Erodible or Unstable Material. Treat as applicable. The Department considers Size No. 57 or larger aggregate, except crushed or uncrushed gravel, non-erodible. The Department considers the following materials to be erodible or unstable:  1) Friable sandstone. The Engineer determines when sandstone is friable or non-friable. 2) Crushed or uncrushed gravel, any size. 3) Crushed coarse aggregate smaller than Size No. 57. 4) Any material with 50 percent or more passing the No. 4 sieve.
<b>SUBSECTION:</b>	805.04 CONCRETE.
<b>REVISION:</b>	Replace the second paragraph with the following:  The Department will waive the requirements for gradation and finer than No. 200 for concrete pipe.
<b>SUBSECTION:</b>	805.10 GRANULAR EMBANKMENT.
<b>REVISION:</b>	Replace "2 ½-inch" with "12-inch".
<b>SUBSECTION:</b>	805.10 GRANULAR EMBANKMENT.
<b>PART:</b>	1)
<b>REVISION:</b>	Replace with the following:  1) Engineer approved shot limestone or sandstone from roadway excavation, borrow excavation, or another approved source.

**Supplemental Specifications to The Standard Specifications  
for Road and Bridge Construction, 2000 Edition  
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<b>SUBSECTION:</b>	805.11 STRUCTURE GRANULAR BACKFILL.																			
<b>REVISION:</b>	Replace with the following:  Provide crushed or uncrushed aggregate meeting the quality requirements of this section. When the material includes a significant amount of individual fragments greater than 1 ½ inches, the Engineer may visually accept the minus No. 200 portion. Conform to the following gradation:																			
	<table><tr><td><u>Sieve Size</u></td><td><u>Percent Passing</u></td></tr><tr><td>4 inch</td><td>100</td></tr><tr><td>No. 4</td><td>0-10</td></tr><tr><td>No. 200</td><td>0-5</td></tr></table>	<u>Sieve Size</u>	<u>Percent Passing</u>	4 inch	100	No. 4	0-10	No. 200	0-5											
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4 inch	100																			
No. 4	0-10																			
No. 200	0-5																			
<b>SUBSECTION:</b>	805.13.03 Channel Lining, Class IA.																			
<b>REVISION:</b>	Replace the first sentence with the following:  Provide crushed stone meeting the general requirements of this section.																			
<b>SUBSECTION:</b>	805.13.04 Channel Lining, Class II.																			
<b>REVISION:</b>	Replace the first sentence with the following:  Provide crushed stone meeting the general requirements of this section.																			
<b>SUBSECTION:</b>	805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.																			
<b>TABLE:</b>	GRADATION – COARSE AGGREGATES FOR UNDERDRAINS																			
<b>REVISION:</b>	Replace “No. 200” sieve with “No. 100”.																			
<b>SUBSECTION:</b>	810.03.04 Extra Protection																			
<b>REVISION:</b>	Replace “mm” in the second sentence of the second paragraph with “inches”.																			
<b>SECTION:</b>	810.03 REINFORCED CONCRETE PIPE.																			
<b>REVISION:</b>	Add new subsection:  810.03.07 Concrete. Submit Concrete Mix Design to the Central Office Materials.																			
<b>SECTION:</b>	812.01.01 Structural Steel, All Types.																			
<b>REVISION:</b>	Replace second sentence with the following:  When the supplementary requirement of this specification are specified, they exceed the requirements of ASTM A 36, A 514, A 572, A 588, and ASTM A 852.																			
<b>SUBSECTION:</b>	812.01.01 Structural Steel, All Types.																			
<b>PART:</b>	A) Structural Steel.																			
<b>REVISION:</b>	Delete AASHTO M 183.																			
<b>SUBSECTION:</b>	812.01.01 Structural Steel, All Types.																			
<b>PART:</b>	B) High-Strength Low-Alloy Columbium-Vandium Steels of Structural Quality.																			
<b>REVISION:</b>	Delete AASHTO M 223.																			
<b>SUBSECTION:</b>	812.01.01 Structural Steel, All Types.																			
<b>PART:</b>	C) High-Strength Low-Alloy Structural Steel with 345 Mpa Minimum Yield Point to 4 Inches Thick.																			
<b>REVISION:</b>	Delete AASHTO M 222.																			
<b>SUBSECTION:</b>	812.01.01 Structural Steel, All Types.																			
<b>PART:</b>	E) High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding.																			
<b>REVISION:</b>	Delete AASHTO M 244.																			
<b>SECTION:</b>	813.08.05 Aluminum Alloy Rolled or Extruded Shapes.																			
<b>REVISION:</b>	Replace “T-4 AND T6” with “T6”.																			
<b>SUBSECTION:</b>	813.09.02 High-Strength Steel Bolts, Nuts, and Washers.																			
<b>PART:</b>	A) Bolts.																			
<b>REVISION:</b>	<table><tr><th colspan="5">HARDNESS NUMBER</th></tr><tr><th rowspan="3">Bolt Size (in)</th><th colspan="2">Brinell</th><th colspan="2">Rockwell C</th></tr><tr><th>Min</th><th>Max</th><th>Min</th><th>Max</th></tr><tr><td>½ - 1</td><td>253</td><td>319</td><td>25</td><td>34</td></tr></table>	HARDNESS NUMBER					Bolt Size (in)	Brinell		Rockwell C		Min	Max	Min	Max	½ - 1	253	319	25	34
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<b>SUBSECTION:</b>	813.13 MATTRESSES AND GABIONS.																			
<b>REVISION:</b>	Replace the first sentence of the first paragraph with the following:  Conform to ASTM A 975, Style 1 or ASTM A 974, Style 1 or 2.																			

**Supplemental Specifications to The Standard Specifications  
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<b>SUBSECTION:</b>	814.04.01 Steel Guardrail Posts.																												
<b>REVISION:</b>	Replace AASHTO M 183 in the first sentence with ASTM A 36.																												
<b>SUBSECTION:</b>	814.05.02 Composite Plastic.																												
<b>REVISION:</b>	Add the following sentence to the first paragraph:  Rubber is an acceptable alternate to plastic in their composition.																												
<b>SUBSECTION:</b>	814.06 MATERIALS FOR END TREATMENTS.																												
<b>PART:</b>	D) Steel Sheet (for rail plates and mounting brackets).																												
<b>REVISION:</b>	Replace 570, Grade D with the 1011, Type SS, Grade 36.																												
<b>SUBSECTION:</b>	816.02 GENERAL.																												
<b>REVISION:</b>	Replace ASTM D 2521 with ASTM A 239.																												
<b>SUBSECTION:</b>	816.02.02 Aluminum-Coated Steel.																												
<b>REVISION:</b>	Replace 0.01 with 0.099.																												
<b>SUBSECTION:</b>	819.01.01 Steel Plates.																												
<b>REVISION:</b>	Replace "Paragraph 14" in the second sentence of the second paragraph with "Table 6".																												
<b>SUBSECTION:</b>	821.03 SAMPLING AND TESTING.																												
<b>REVISION:</b>	In the third sentence of the first paragraph, replace calendar days with working days.																												
<b>SUBSECTION:</b>	827.04 PERMANENT SEED.																												
<b>REVISION:</b>	Replace with the following:  Conform to the requirements outlined in the "Kentucky Seed Law and Provisions for Seed Certification in Kentucky" and the "Regulations under the Kentucky Seed Law", with following exceptions:  <ol style="list-style-type: none"> <li>1. Obtain seed only through registered dealers that are permitted for labeling of seed.</li> <li>2. Ensure all deliveries/shipments of premixed seed are accompanied with a master blend sheet.</li> <li>3. The Department may sample the seed at the job site at any time.</li> <li>4. Ensure all bags and containers have an acceptable seed tag attached.</li> </ol> <p>Do not use seed (grasses, native grasses and legumes) if the weed seed is over 2%, total germination (including hard seed) is less than 60%, if the seed test date is over 9 months old exclusive of the month tested, or if the limits of noxious weed seed is exceeded.</p> <p>Ensure that noxious weed seeds contained in any seed or seed mixture does not exceed the maximum permitted rate of occurrence per pound.</p> <table> <thead> <tr> <th><u>Name of Kind</u></th><th><u>Max. No. Seeds (per pound)*</u></th></tr> </thead> <tbody> <tr> <td>Balloon Vine (<i>Cardiospermum Halicacabum</i>)</td><td>0</td></tr> <tr> <td>Purple Moonflower (<i>Ipomoea turbinata</i>)</td><td>0</td></tr> <tr> <td>Canada Thistle (<i>Cirsium Arvense</i>)</td><td>0</td></tr> <tr> <td>Johnsongrass (<i>Sorghum Halepense</i> and <i>Sorghum Almum</i> and perennial rhizomatous derivatives of these species)</td><td>0</td></tr> <tr> <td>Quackgrass (<i>Elytrigia Repens</i>)</td><td>0</td></tr> <tr> <td>Annual Bluegrass (<i>Poa Annua</i>)</td><td>256</td></tr> <tr> <td>Buckhorn Plantain (<i>Plantago lanceolata</i>)</td><td>304</td></tr> <tr> <td>Corncockle (<i>Agrostemma Githago</i>)</td><td>192</td></tr> <tr> <td>Dodder (<i>Cuscuta spp.</i>)</td><td>192</td></tr> <tr> <td>Giant Foxtail (<i>Setaria Faberii</i>)</td><td>192</td></tr> <tr> <td>Oxeye Daisy (<i>Chrysanthemum leucanthemum</i>)</td><td>256</td></tr> <tr> <td>Sorrel (<i>Rumex Acetosella</i>)</td><td>256</td></tr> <tr> <td>Wild Onion and Wild Garlic (<i>Allium spp.</i>)</td><td>96</td></tr> </tbody> </table> <p>* Seed or seed mixtures that contain in excess of 480 total noxious seeds per pound is prohibited Wildflower seed shall not be planted until approved by the MCL.</p>	<u>Name of Kind</u>	<u>Max. No. Seeds (per pound)*</u>	Balloon Vine ( <i>Cardiospermum Halicacabum</i> )	0	Purple Moonflower ( <i>Ipomoea turbinata</i> )	0	Canada Thistle ( <i>Cirsium Arvense</i> )	0	Johnsongrass ( <i>Sorghum Halepense</i> and <i>Sorghum Almum</i> and perennial rhizomatous derivatives of these species)	0	Quackgrass ( <i>Elytrigia Repens</i> )	0	Annual Bluegrass ( <i>Poa Annua</i> )	256	Buckhorn Plantain ( <i>Plantago lanceolata</i> )	304	Corncockle ( <i>Agrostemma Githago</i> )	192	Dodder ( <i>Cuscuta spp.</i> )	192	Giant Foxtail ( <i>Setaria Faberii</i> )	192	Oxeye Daisy ( <i>Chrysanthemum leucanthemum</i> )	256	Sorrel ( <i>Rumex Acetosella</i> )	256	Wild Onion and Wild Garlic ( <i>Allium spp.</i> )	96
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<b>SUBSECTION:</b>	832.02 TYPE I POSTS.																												
<b>REVISION:</b>	Replace ASTM A 570 with ASTM A 1011.																												



**Supplemental Specifications to The Standard Specifications  
for Road and Bridge Construction, 2000 Edition  
(Effective with the April 25, 2003 Letting)**

<b>SECTION:</b>	840 RAISED PAVEMENT MARKERS								
<b>REVISION:</b>	Replace the section with the following:  840.01 TYPE IV MARKERS. Provide markers from the Department's List of Approved Materials. Type IV markers are replacement lenses for use in Type V marker castings.  840.02 TYPE V MARKERS. Provide markers from the Department's List of Approved Materials. Type V markers consist of an iron casting with a Type IV marker (mono or bi-directional) attached.  840.03 TYPE IVA MARKERS. Provide markers from the Department's List of Approved Materials. Type IVA markers are surface mounted lenses for temporary use in work zones.  840.04 SAMPLING. Obtain a manufacturer's certification for each shipment. Include with each shipment of adhesive a written statement from the manufacturer certifying that it conforms to the recommendations of the marker manufacturer, and stating the minimum temperature the adhesive can be satisfactorily mixed and applied.  840.05 PACKAGING. Suitably and substantially package all materials with the name and address of the manufacturer and vendor, contract or purchase number, kind of material, trade name, and net contents plainly marked on each package.								
<b>SUBSECTION:</b>	843.01.01 Geotextile Fabric.								
<b>REVISION:</b>	Add the following sentence to the first paragraph:  Use circular-knit geotextile conforming to ASTM D 6707 for perforated pipe socks.  Add the following sentence to the third paragraph:  The manufacturer must participate in the National Transportation Product Evaluation Program (NTEP) for Geotextiles and Geosynthetics.								
<b>SUBSECTION:</b>	843.01.01 Geotextile Fabric.								
<b>PART:</b>	C) Acceptance.								
<b>REVISION:</b>	Delete the burst strength requirement from each table.								
<b>SUBSECTION:</b>	845.02.03 Wrapping.								
<b>REVISION:</b>	Replace Section 845 with Section 843, Type II.								
<b>SECTION:</b>	846 HIGH DENSITY POLYETHYLENE (HDPE) ADJUSTING RINGS								
<b>REVISION:</b>	Add New Section:  846.01 RESIN. Use a recycled polyethylene plastic or virgin resin producing a molded part meeting the following requirements:  <table style="margin-left: 100px;"> <tr> <td>Melt Flow Index (ASTM D 1238)</td><td>4.0-10.0 g/10min</td></tr> <tr> <td>Density (ASTM D 792)</td><td>0.941-0.965 g/cm<sup>3</sup></td></tr> <tr> <td>Tensile (ASTM D 638)</td><td>2000-5000 lb/in<sup>2</sup></td></tr> <tr> <td>ESCR (ASTM D 1693)</td><td>Condition C</td></tr> </table>  846.02 LOADING. Ensure the adjustment rings meet or exceed the loading requirements of AASHTO'S Standard Specification for HS-25 wheel loading for Highway Bridges.	Melt Flow Index (ASTM D 1238)	4.0-10.0 g/10min	Density (ASTM D 792)	0.941-0.965 g/cm <sup>3</sup>	Tensile (ASTM D 638)	2000-5000 lb/in <sup>2</sup>	ESCR (ASTM D 1693)	Condition C
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## **SPECIAL NOTE FOR ACCEPTANCE OF DENSITY OF LONGITUDINAL JOINTS IN ASPHALT SURFACE PAVEMENTS**

This Special Note will apply when indicated on the plans or in the proposal. Section references herein are to the Department's 2000 Standard Specifications for Road and Bridge Construction.

**1.0 DESCRIPTION.** This note specifies additional density acceptance testing required for the longitudinal joint of asphalt surface mixtures compacted under Option A requirements. Due to the inherent difficulty of compacting longitudinal joints, conventional methods of compaction may not be adequate to achieve the desired level of density.

**2.0 MATERIALS AND EQUIPMENT.** Reserved.

**3.0 CONSTRUCTION.**

**3.1 Acceptance.** In addition to the responsibilities of Subsection 402.03.02 D), furnish 2 cores per subplot at a location randomly selected in the longitudinal direction by the Engineer according to KM 64-113. Select the transverse direction such that some part of the core circumference is within  $3.0 \pm 0.5$  inches of the longitudinal joint.

By the end of the following workday, obtain the core(s) from the longitudinal joint as each lane of material is placed. Do not wait for the adjoining lane to be placed before obtaining the core(s) from the longitudinal joint.

**4.0 MEASUREMENT.** The Department will not measure the additional coring required by this note for payment and will consider it incidental to the asphalt mixture.

**5.0 PAYMENT.**

**5.1 Lot Pay Adjustment.** Contrary to Subsection 402.05.02, the Department will use the following Lot Pay Adjustment Schedule to assign pay values for AC, AV, VMA, Lane Density, and Joint Density within each subplot.

**5.2 Joint Density Deductions.** Due to a lack of experience with longitudinal joint density requirements, the Department will not enforce net project deductions resulting from Joint Density values as given in the Lot Pay Adjustment Schedule. However, when bonuses exceed deductions for asphalt mixture for the total project, the Department will apply the Joint Density values and pay the net difference.

### LOT PAY ADJUSTMENT SCHEDULE

Lot Pay Adjustment = (Unit Price) (Quantity) [ {0.05(AC Pay Value) + 0.25(AV Pay Value) + 0.25(VMA Pay Value) + 0.30(Lane Density Pay Value) + 0.15(Joint Density Pay Value)} - 1.00 ]

WEIGHTED VALUES					
	AC	AV	VMA	Lane Density	Joint Density
Weight (%)	5	25	25	30	15

AC	
Pay Value	Deviation From JMF (%)
1.00	$\leq \pm 0.5$
0.95	$\pm 0.6$
0.90	$\pm 0.7$
(1)	$\geq \pm 0.8$

VMA	
Pay Value	Deviation From Minimum
1.00	$\geq$ min. VMA
0.95	0.1-0.5 below min.
0.90	0.6-1.0 below min.
(1)	> 1.0 below min.

AV	
Pay Value	Test Result (%)
1.05	3.5-4.5
1.00	3.0-5.0
0.95	2.5-5.5
0.90	2.0-6.0
(1)	< 2.0 or > 6.0

LANE DENSITY	
Pay Value	Test Result (%)
1.05	94.0-96.0
1.00	92.0-93.9
0.95	91.0-91.9 or 96.1-96.5
0.90	90.0-90.9 or 96.6-97.0
(1)	< 90.0 or > 97.0

JOINT DENSITY	
Pay Value	Test Result (%)
1.05	91.0-96.0
1.00	89.0-90.9
0.95	88.0-88.9 or 96.1-96.5
0.90	87.0-87.9 or 96.6-97.0
0.75	< 87.0 or > 97.0

(1) The Department will evaluate the acceptability of the work. When the Department allows the Contractor to leave the work in place, the Department will determine its value and may pay up to, but no case more than, 85 percent. In addition to the reduction in pay, the Department may require the Contractor to perform corrective action to the work.

June 4, 2002

**TRAFFIC CONTROL PLAN  
OHIO COUNTY  
FD04 092-9001-065-084**

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**THIS PROJECT IS A FULLY  
CONTROLLED ACCESS HIGHWAY**

**TRAFFIC CONTROL GENERAL**

Except as provided herein, traffic shall be maintained in accordance with the 2000 Standard Specifications and the Standard Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition, at the beginning of the work and maintained in like new condition until completion of the work.

**PROJECT PHASING & CONSTRUCTION PROCEDURES**

At the discretion of the Engineer, days and hours may be specified when lane closures will not be allowed.

Maintain a minimum of one traffic lane (mainline and ramps) in each direction at all times during construction. The clear lane width shall be 11 feet; however, make accommodations to allow the passage of a vehicle up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, make provisions for the passage of the bus as quickly as possible.

**Phase I – Culvert Replacement.** Maximum length of lane closure shall be 5 miles. Minimum distance between lane closures in the same direction of travel shall be 5 miles. Construct culvert replacements. Backfill pipe trenches within 10 feet of traffic the same day as excavated.

**Phase II – Base Failure Repairs.** Maximum length of lane closure shall be 5 miles. Minimum distance between lane closures in the same direction of travel shall be 5 miles. Perform base failure repairs. Backfill through the top asphalt base course the same day the trench is excavated. Phase II may be Concurrent with Phase I.

**Phase III – Reconstruct Median and Install Edge Drains.** Maximum length of lane closure shall be 10 miles. Minimum distance between lane closures in the same direction of travel shall be 5 miles. Reconstruct median.

**Phase IV – Asphalt Milling & Resurfacing.** After base failure repairs are stabilized (see notes) and edge drain systems are installed, begin milling and resurfacing. Maximum length of lane closure shall be 5 miles. Minimum distance between lane closures in the same direction of travel shall be 5 miles.

## **LANE CLOSURES**

During construction of this project, the Contractor may close one lane in each direction of work as specified in the phasing, using cones, barricades, or drums with flashing arrows in accordance with the Standard Drawings and these notes. Cones will not be allowed for lane closures during nighttime nor non working hours.

## **SIGNS**

Additional traffic control signs in addition to normal lane closure signing detailed on the Standard Drawings may be required by the Engineer. Additional signs needed for lane closures may include, but are not limited to, dual mounted LEFT/RIGHT LANE CLOSED 1 MILE, LEFT/RIGHT LANE CLOSED 2 MILE, LEFT/RIGHT LANE CLOSED 3 MILE, SLOWED/STOPPED TRAFFIC AHEAD, KEEP RIGHT, KEEP LEFT, etc.

Contrary to Section 112.04.02 and 112.04.03, Low Shoulder signs will not be measured for payment, but will be incidental to Maintain and Control Traffic. Contrary to section 112.04.02, only long term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

Individual signs will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged signs or signs directed to be replaced by the Engineer due to poor legibility or reflectivity will not be measured for payment.

## **VARIABLE MESSAGE SIGNS**

If deemed necessary by the Engineer, Variable Message Signs will be installed, operated, and maintained by the Department.

## **TRUCK MOUNTED ATTENUATORS**

Furnish and install Truck Mounted Attenuators in advance of all pavement base failure removal areas when workers are present in excavated areas less than 10 feet from traffic. This is in addition to the standard signing and flashing arrows required in the Standard Drawings. The Contractor shall have stockpiled on the site one set of additional replacement cartridges, so that the TMA can be repaired immediately if hit. These vehicles are to be used to protect the work area. The TMA shall be moved as the work zone moves within the project limits.

When workers are present, place one TMA at pavement removal locations and one at pavement replacement locations. The TMAs shall be located at the individual work sites and shall be moved as the work zone moves within the project limits. All details of the TMA installations are to be approved by the Engineer. Contrary to Special Provision 13 Crash Cushions, TMAs will not be measured for payment and the Department will **NOT** take ownership of the TMAs upon completion of the work.

## **BARRICADES**

Barricades used in lieu of barrels and cones for channelization or delineation will be incidental to Maintain and Control Traffic according to Section 112.04.01.

Barricades used to protect pavement removal areas will be bid as each according to Section 112.04.04. Individual barricades will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged barricades or barricades directed to be replaced by the Engineer due to poor legibility or reflectivity will not be measured for payment.

## **TRAFFIC COORDINATOR**

Designate an employee to be traffic coordinator. The Traffic Coordinator shall provide for the inspection of the project's maintenance of traffic once every two hours during the Contractor's operations and at any time a lane closure is in place. The Traffic Coordinator shall report all incidents throughout the work zone to the Engineer on the project. The Contractor shall furnish the name and telephone number where the Traffic Coordinator can be contacted at all times.

During any period when a lane closure is in place, the Traffic Coordinator shall arrange for personnel to be present on the project at all times to inspect the traffic control and to maintain the signing and devices. The personnel shall have access on the project to a radio or telephone to be used in case of emergencies or accidents.

## **PAVEMENT MARKINGS**

Contrary to Section 112.03.10, remove or cover the lenses of raised pavement markers that do not conform to the traffic control scheme in use, or as directed by the Engineer. Lenses shall be replaced or uncovered before a closed lane is reopened to traffic. No direct payment will be made for removing and replacing or covering and uncovering the lenses, but shall be incidental to "Maintain and Control Traffic".

Place temporary and permanent striping according to Sections 112 and 748, except that:

Temporary striping shall be 6"; and  
Edge lines will be required for temporary striping; and  
Permanent Striping shall be 6" Thermoplastic; and  
Either temporary or permanent striping shall be in place before opening a lane to traffic.

## **PAVEMENT EDGE DROP-OFFS**

A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1½ inches. Warning signs (MUTCD W8-11 or W8-9A) shall be placed in advance of and throughout the drop-off area. Dual posting on both sides of the traveled way shall be required.

Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than 2 inches - No protection required.

2 inches to less than 4 inches - Place plastic drums, vertical panels, or barricades every 50 feet. Cones may be used in place of plastic drums, panels, and barricades during daylight working hours. Wedge with DGA or asphalt mixtures with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

Base Failure, Edge Drains, and Pipe trenches - Protect with a lane or shoulder closure using drums or barricades; cones will not be allowed. If traffic is less than 10 feet from the excavated area, drum or barricade spacing shall not exceed 20 feet. Place Type III Barricades facing oncoming traffic at each drop off until final asphalt base course is placed. Backfill trenches and place asphalt base on same day trench is excavated; if work is interrupted by inclement weather or for any other reason such that the asphalt base cannot be replaced on the same day it is removed or excavated, protect any drop-offs within 10 feet of a travel lane with a DGA wedge with 3:1 or flatter slope; the wedge shall be removed and the new pavement placed as soon as the weather permits. In lieu of a wedge, small areas of 4 feet or less in their least

dimension may be covered by a  $\frac{3}{4}$  inch steel plate when work is not actively in progress at the pavement removal area; the plate shall be anchored to the pavement by any method approved by the Engineer that will prevent it being dislodged by accidental impact. While workers are present in excavated areas greater than 4 inches located less than 10 feet from traffic, protect work zone with a TMA.



**SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS**  
**FD04 092-9001-065-084**

The dimensions shown on the typical sections for pavement and shoulder widths and thicknesses are nominal or typical dimensions. The actual dimensions to be constructed may be varied to fit existing conditions as directed or approved by the Engineer. It is not intended that existing pavement or shoulders be widened unless specified elsewhere in the Proposal.

Typical Section  
7/11/2002

**SPECIAL NOTE FOR  
ASPHALT MILLING AND TEXTURING  
FD04 092-9001-065-084**

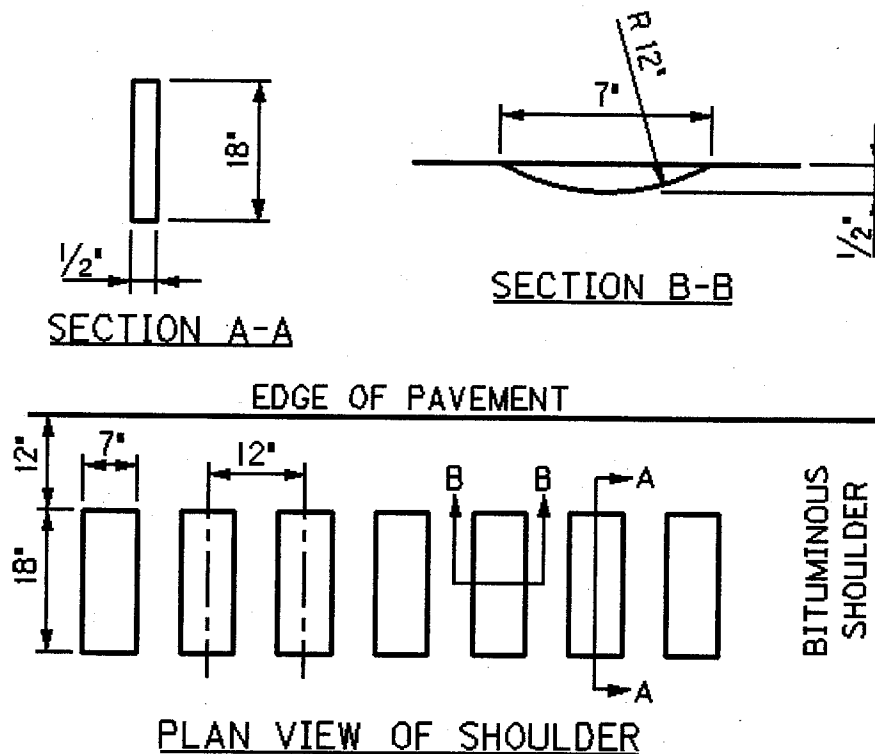
Begin paving operations no later than 2 weeks after the commencement of the asphalt milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, liquidated damages will be assessed at the rate prescribed by Section 108.09 of the 2000 Standard Specifications until such time as paving operations are begun.

Use cuttings from milling to wedge drop-offs greater than 1 inch on outside paved shoulder edge. Contrary to Section 408 of the 2000 Standard Specifications, the excess material from the milling operations not used for shoulder wedging, if any, shall become the property of the Department. Deliver this material to the State Maintenance facility in Ohio County.

**SPECIAL NOTE FOR MILLED RUMBLE STRIPS**  
**FD04 092-9001-065-084**

Contrary to Section 403.03.08 of the 2000 Standard Specifications, construct milled rumble strips as shown on the drawing on all mainline and ramp shoulders. Do not mill rumble strips across public road intersections. Milled rumble strips will be measured as linear feet of shoulder in each direction of travel.

Coordinate this work with the Resident Engineer in locations near bridge ends, traffic loops, and piezoelectric sensors. Any damage caused to structures, sensor lead-ins, or loops, shall be the responsibility of the contractor to repair or replace at no additional cost to the Department.



## **SPECIAL NOTES FOR BASE FAILURE REPAIR**

### **FD04 092-9001-065-084**

Repair locations listed in the summary are approximate only. Actual base failure repair locations will be determined by the Engineer prior to resurfacing. Saw cut the existing pavement, asphalt surface and base, and PCC pavement (if present). Excavate to an approximate depth of 10 inches below the bottom of the existing pavement level. Remove and dispose of all materials. Use all possible care to avoid damaging existing culvert pipes and any existing underground utilities. Repair or restore any damaged items at no additional costs to the Department. Waste all removed materials off the Right of Way at sites obtained by the Contractor.

Backfill the excavated area with 10 inches of #23 stone wrapped in Table III Geotextile Fabric on the bottom and sides of the excavated area. Backfill the remaining area with Class 2 Asphalt Base 1.00D PG64-22 in 4 inch maximum courses up to the existing pavement surface. Seal the Asphalt Base with Leveling and Wedging. Compact each course of asphalt base to the proper compaction as required by the Section 403. Seal the asphalt base with Leveling and Wedging. Perform all base failure repairs in such a manner that removal and replacement are completed on the same day. Do this work as one of the Contractor's first operations in order to allow further compaction by traffic. Do not place new asphalt surface over repaired base failures until a minimum of 7 days has elapsed after placement of final course of asphalt base. Prior to constructing new asphalt surfacing, level and wedge any settlement of the repair areas.

The bidder must draw his own conclusions as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation of the materials encountered that are not in accord with the classification shown.

Payment at the Contract unit prices per square yard for "Base Failure Repair" and per ton for "Leveling and Wedging" shall be full compensation for all labor, materials, equipment, and incidentals for saw cutting pavement, excavating and disposing of all materials, furnishing and placing #23 stone wrapped in Table III Geotextile Fabric and backfilling the trench up to the pavement boundary, furnishing and placing the Asphalt Base, leveling and wedging, and all other items necessary to complete the work to the satisfaction of the Engineer.

**SPECIAL NOTES FOR GUARDRAIL**  
**FD04 092-9001-065-084**

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**I. DESCRIPTION**

Perform all work shall in accordance with the Department's 2000 Standard Specifications and applicable Special Provisions and Standard Drawings except as specified in these notes, or elsewhere in the drawings or the proposal. Article references are to the Standard Specifications.

This work shall consist of the following; (1) Removing existing guardrail and end treatments; (2) Installation of guardrail, terminal sections, and end treatments; (3) Maintaining and controlling traffic; and (4) all other work specified as part of this contract.

**II. MATERIALS**

All materials shall be sampled and tested in accordance with the Department's Sampling Manual and the materials shall be available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

**A. Guardrail Posts.** Furnish steel guardrail posts only, no alternates.

**III. CONSTRUCTION METHODS**

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Remove Guardrail End Treatments.** Remove existing guardrail systems; milepoints listed on the guardrail summary are approximate only. Deliver all components other than removed concrete to the Department's Ohio County Maintenance Facility.

**C. Site Preparation.** The Contractor will be responsible for all site preparation. This item shall include, but is not limited to, incidental excavation and embankment and backfilling, removal of obstructions or any other items, disposal of materials, temporary erosion control, and seeding and protection. Silt Checks and Temporary Silt Fence shall be constructed at locations as directed by the Engineer. All site preparation shall be only as approved or directed by the Engineer. Other than bid items listed in the contract, no direct payment will be allowed for site preparation, but shall be incidental to the other items of the work.

**D. Guardrail Installation.** The guardrail and end treatments shall be erected to the lines and grades shown on Standard Drawings or as directed by the Engineer. The shoulder width shall be as directed by the Engineer. Milepoints listed on the guardrail summary are approximate only. Exact termini for individual guardrail installations will be determined by the Engineer at the time of erection.

When installing guardrail, do not leave the blunt end left exposed where it would be hazardous to the public. When it is not practical to complete the construction of the rail and the permanent end treatments concurrently, the Contractor shall provide a temporary end by connecting at least 4 pieces of rail to the last post, and by slightly flaring, and burying the end of the rail completely into the existing shoulder. If left overnight, a barrel with bridge panel as detailed on current Standard Drawing TSC-261 shall be placed in advance of the guardrail end and maintained during use. The cost of the temporary end, including the barrier and panel, shall be included in the unit price for Guardrail, Single Face.

**E. On-Site Inspection.** Each Contractor submitting a bid for this work shall make a thorough inspection of the site prior to submitting his bid and shall thoroughly familiarize him-self with existing conditions so that the work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.

**F. Property Damage.** The Contractor will be responsible for all damage to public and/or private property resulting from his work.

**G. Final Dressing, Clean Up, and Seeding.** After all work is completed, debris from the construction site shall be completely removed from the job site.

**H. Right-of-Way Limits.** Right-of-Way limits have not been determined. The Contractor shall make every effort to limit his activities to obvious Right-of-Way, Permanent or Temporary Easements, and work areas secured by the Department through consent and release of the adjacent property owners, and shall be responsible for encroachments onto private lands.

**I. Utility Clearance.** Work around and do not disturb existing underground or overhead utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Working days will not be charged for those days on which work on the controlling item is delayed, as provided in the Specifications. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work.

#### **IV. METHOD OF MEASUREMENT**

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Remove Guardrail End Treatments.** Guardrail end treatments removed will be measured in individual units each.
- C. Site Preparation.** Other than bid items listed in the contract, site preparation, will not be measured for payment but shall be but shall be incidental to the other items of the work.

#### **V. BASIS OF PAYMENT**

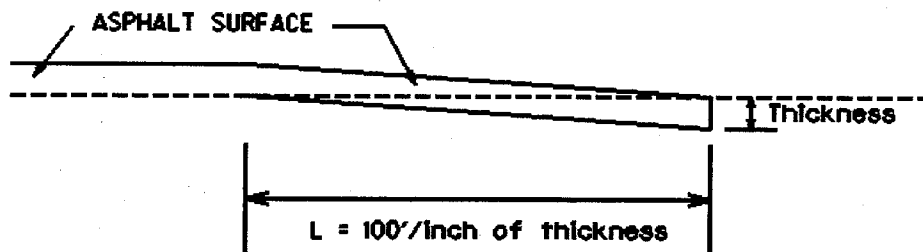
No direct payment will be made other than for the bid items listed. All other items required to complete the construction shall be incidental to the bid items listed.

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Remove Guardrail End Treatments.** Payment at the contract unit price each shall be full compensation for all labor, equipment, materials, and incidentals for removing end treatments, restoration, delivering components to the Ohio County Maintenance Headquarters, disposing of concrete and waste, and all other items need to complete this work

**SPECIAL NOTE FOR EDGE KEY**  
**FD04 092-9001-065-084**

Construct Edge Keys at the beginning of project, end of project, at ramps, and bridge ends, as applicable. Cut out the existing asphalt surface to the required depth and width shown on the drawing. Heel new surface into the existing surface. The Department will pay for this work at the contract unit price per ton for "Asphalt Pavement Milling and Texturing", which shall be full compensation for all labor, materials, equipment, and incidentals for removal and disposal of the existing asphalt surface required to construct the edge key.

**EDGE KEY**

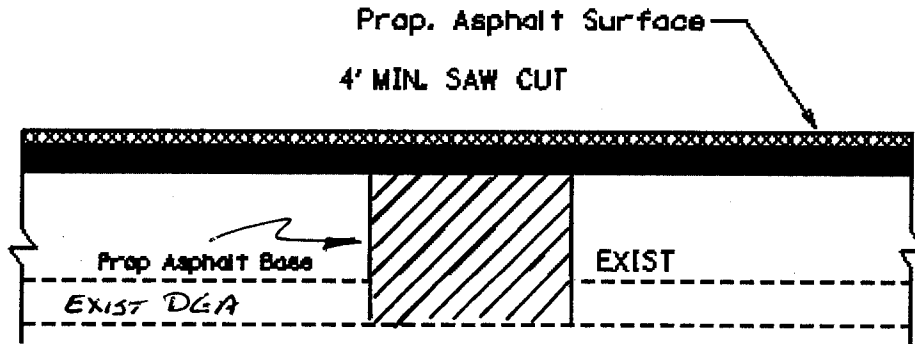


$$\text{Thickness} = 1 \frac{1}{2}''$$

$$L = 150'$$



**SPECIAL NOTE FOR REPAIR OF  
EXISTING BLOW-UP  
FD04 092-9001-065-084**



The Engineer will determine the location of blow-up repairs at the time of construction. Saw cut the existing pavement. Remove existing pavement back to solid concrete. Fill trench with Class 2 Asphalt Base 1.00 D PG 64-22. Compact in equal lifts, not to exceed three inches per lift, with mechanical compactors to obtain specified compaction as required by section 403 of the 2000 Standard Specifications. Seal with Leveling and Wedging. Do this work as one of the Contractor's first operations in order to allow further compaction by traffic. Do not place new asphalt surface over repaired blow-ups until a minimum of 7 days has elapsed after placement of final course of asphalt base.

Prior to constructing new asphalt surfacing, level and wedge any settlement of the blow-up repair areas. Other than Leveling and Wedging, no additional payment will be allowed for corrective work required.

Payment at the Contract unit price per ton for "Class 2 asphalt Base 1.00D PG64-22" and for "Leveling and Wedging" shall be full compensation for all labor, materials, equipment, and incidentals for saw cutting pavement, removing and disposing of existing material, filling with Asphalt Base, and Leveling and Wedging as necessary to complete the repair as detailed above.

F004 092-9001-065-084

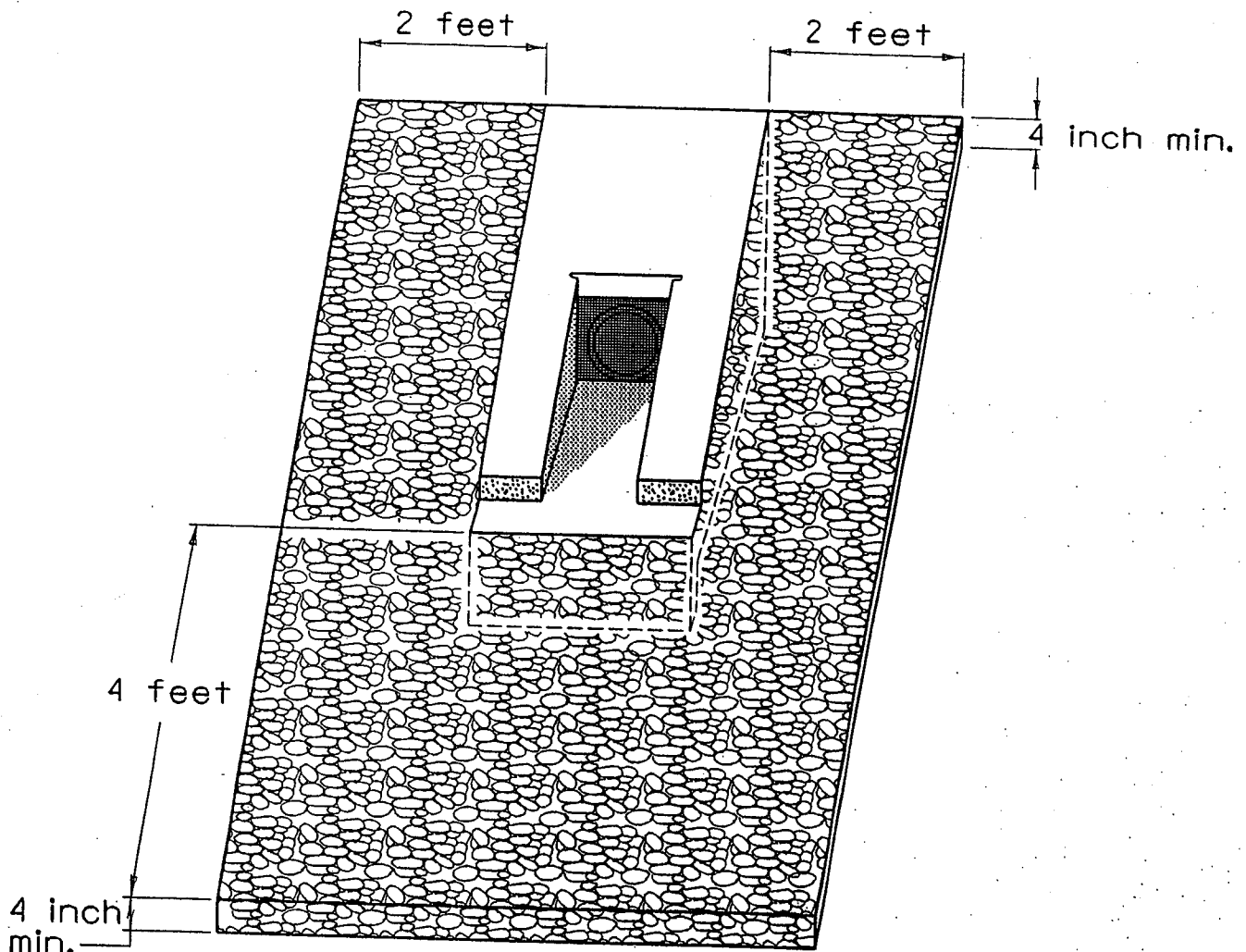
## SPECIAL NOTE FOR PAVEMENT SUBSURFACE DRAINAGE OUTLET

Use approximately one ton of Crushed Aggregate Size No. 2 at all Perforated Pipe Headwall Outlets as illustrated in the detail below. Place Crushed Aggregate Size No. 2 to a minimum depth of 4" as detailed below.

Use Dense Graded Aggregate (DGA) removed during placement of the Crushed Aggregate Size No. 2 to dress existing shoulders where DGA is exposed. Waste other materials removed during placement of the Crushed Aggregate Size No. 2 as directed by the Engineer. The Department will make no direct payment for disposal of wasted material.

The Department will consider payment for Crushed Aggregate Size No. 2 as full compensation for all materials, labor, and other incidentals necessary to place Crushed Aggregate Size No. 2 for vegetation control and/or erosion control at pavement edge drain outlets.

See current Standard Drawing RDP-010 for dimensions and other details.



**PERFORATED PIPE HEADWALL OUTLET**

**TRAFFIC CONTROL FOR RAISED PAVEMENT MARKER  
INSTALLATIONS  
FD04 092-9001-065-084**

**TWO-LANE, TWO-WAY ROADWAYS:**

On two-lane, two-way roadway sections, lane closures shall be considered short-duration operations. All work shall be accomplished in only one lane and shall affect the adjacent lane as little as possible. Egress and ingress shall be provided to all ramps, side roads, and entrances at all times.

Approaches to the immediate work area shall be signed in accordance with Lane Closure Case I-A. All signs may be installed on temporary mountings.

All work vehicles used in the roadway shall be equipped, as a minimum, with strobe lights or rotating beacons. If equipped with a flashing arrow board, the board shall be used in caution mode, but shall not indicate a flashing arrow. The use of a truck mounted attenuator will not be required on two-lane, two-way roadway sections.

When the pavement markers have been placed on the roadway, traffic cones shall be used to protect the markers from traffic until the adhesive epoxy has hardened.

**MULTI-LANE ROADWAYS:**

On multi-lane roadway sections, all operations shall be performed behind stationary lane closures. All lane closures shall be approved by the Engineer and shall be signed in accordance with Lane Closure Cases II and IV. Egress and ingress shall be provided to all ramps, side roads, and entrances at all times.

A truck mounted attenuator shall be required on multi-lane roadways. The location of the TMA within the lane closure shall be as specified by the Engineer.

No more than one lane of traffic plus 24 inches maximum of only one adjacent lane shall be closed per direction of travel. A minimum lane width of 10 feet should be maintained. The length of a lane closure shall not exceed 1 mile in urban areas nor 3 miles in rural areas. Consecutive lane closures shall be permitted only if separated by a minimum of 2 miles and must be affecting the same lane.

The Contractor shall provide for the installation of all necessary traffic control devices before beginning work and their immediate removal as soon as work is suspended or completed, and the pavement markers are completely bonded to the pavement.

**SPECIAL NOTE FOR COMPLETION DATE & LIQUIDATED DAMAGES**  
**OHIO COUNTY**  
**FD04 092-9001-065-084**

All asphalt base and surface courses containing asphalt binder PG76-22 shall be completed by October 15, 2003. In addition to the Liquidated Damages specified in Section 108, Liquidated Damages in the amount specified in Section 108 will be assessed for each calendar day after October 15, 2003, that any asphalt base or surface coarse containing asphalt binder PG76-22 remains uncompleted.

The remainder of the work shall be completed by November 15, 2003. Contrary to Section 108, liquidated damages will be assessed for the months of December through March.

All liquidated damages will be applied accumulatively.

All other applicable portions of Section 108 apply.

**SPECIAL NOTES FOR PAVEMENT REHABILITATION  
OHIO COUNTY  
FD04 092-9001-065-084**

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**THIS PROJECT IS A FULLY  
CONTROLLED ACCESS HIGHWAY**

**GENERAL**

Perform all work in accordance with the Department's 2000 Standard Specifications, applicable Special Provisions, and Standard and Sepia Drawings except as specified in these notes or elsewhere in this proposal. Article references are to the Standard Specifications.

**SITE PREPARATION**

Be responsible for all site preparation. This item shall include, but is not limited to, clearing and grubbing, pavement removal, excavation and backfilling, embankments, removal of obstructions or any other items, disposal of materials, temporary and permanent erosion control, final dressing, and seeding and protection. Stockpile topsoil for use in Final Dressing and restoration. Construct Silt Checks and Temporary Silt Fence at locations designated by the Engineer. All site preparation shall be only as approved or directed by the Engineer. Except for the bid items listed, site preparation will not be measured for payment but shall be incidental to the other items of work.

**SHOULDER PREPARATION AND RESTORATION**

Prior to placing any lane closures that require shifting traffic onto existing shoulders, patch the shoulder as directed by the Engineer. Remove failed materials and perform additional patching as directed by the Engineer during the time the shoulder is used as a travel lane. DGA and asphalt mixtures will be paid at the Contract unit bid prices; all other shoulder preparation and restoration will be incidental to other items of work.

**MEDIAN RECONSTRUCTION**

Remove raised median and construct depressed median as shown on the drawings and as directed by the Engineer. Positive drainage of the entire median into all drainage structures is required upon completion of construction and is the responsibility of the Contractor. Payment at the Contract unit price per linear foot for "Reconstruct Median" shall be full compensation for all labor, materials, equipment, and incidentals for excavating and regrading median to the new typical section.

## **MEDIAN CROSS-OVERS**

Reconstruct median crossovers at their approximate existing locations according to Standard Drawing RPM-001. Pave the crossovers with 4" of Class 2 Asphalt Base 1.00D PG64-22 and 1½" of Class 2 Asphalt Surface 0.50D PG64-22.

## **ASPHALT PAVEMENT REHABILITATION**

Repair base failures according to the Special Note for Base Failure Repairs. Level and wedge and mill and texture as directed by the Engineer. Place Scratch Course and compact with a pneumatic tired roller. Place asphalt surface and shoulders as shown on the typical sections and the ramp detail sheets.

## **CULVERT PIPE**

Furnish culvert pipe for pH range medium and the required fill cover height at each location. Excavation, pavement removal, and removal of existing pipe and inlets if required will not be measured for payment but shall be incidental to culvert pipe. Safeload abandoned pipe and box inlets to remain in place as directed by the Engineer. Safeloading will not be measured for payment but shall be incidental to culvert pipe. Positive drainage is required upon completion of construction and is the responsibility of the Contractor. Backfill pipe to subgrade elevation with flowable fill. Restore pavement over pipe trench according to the Special Notes for Blowup Repair. In areas where traffic is less than 10 feet from open trenches, excavate and construct pipe, backfill, and restore pavement on the same day.

## **REMOVE PAVEMENT MARKERS TYPE V**

Remove existing Type V Pavement Markers. Deliver the removed pavement markers to the Department's Bailey Bridge Yard in Franklin County.

## **MAINTAIN AND CONTROL TRAFFIC**

See Traffic Control Plan.

## **GUARDRAIL**

Do not disturb existing guardrail to remain in place. Warp slopes of reconstructed median to match existing median/shoulder template at guardrail locations.

## **EDGE DRAINS**

Construct edge drains both shoulders in both directions as shown on the drawings. Quantities listed are approximate only; the Engineer will determine actual quantities at the time of construction. All pipe connections and non-perforated pipe outlets shall be rigid. Use flowable fill for backfilling non-perforated pipe between elbow or T joints to headwalls and median boxes. Flowable fill will not be measured for payment but shall be incidental to non perforated pipe.

Outlet all longitudinal perforated pipe to new or existing headwalls and median boxes; use median boxes and existing headwalls whenever possible. Construct outlets at 500 foot maximum spacing. Locations listed are approximate only; the Engineer will determine exact locations at the time of construction. Construct an outlet at all sag vertical curves. Use T joints only at outlets in sag verticals; use elbow joints with pipe caps and skewed outlets at all other locations as shown on the drawings.

After completion of all operations, inspect and certify the edge drain system prior to final inspection. Repair or replace all damaged edge drains at no additional cost to the Department.

## **CHANNEL LINING**

Place channel lining in existing eroded paved ditches and other locations as directed by the Engineer.

## **DELINEATOR POSTS**

Replace all delineator posts removed or damaged during Contractor's operations at no additional cost to the Department. No additional delineators are required.

## **WASTING**

All soil from the median and all cuttings from milling shall remain the property of the Department. Use stockpiled topsoil for final dressing and restoration. Use millings to wedge drop-offs on outside shoulder edge greater than one inch; deliver millings not used to correct shoulder drop-offs to the Department's Ohio County Maintenance Facility. Use excavation from median as needed for incidental embankments and to flatten slopes as directed by the Engineer; deliver excess excavation from the median to the Department's Ohio County Maintenance Facility. Spread, Level, and compact the excavation to construct embankment on the rear half of the Maintenance Facility's lot as directed by the erosion; be responsible for temporary and permanent erosion control. Concrete waste may be rubbelized and used as Channel Lining. Dispose of unsuitable or excavation and all other waste at locations off the right of way at sites obtained by the Contractor at no additional cost to the Department.

### **CLEAN UP AND SEEDING**

After all work is completed, debris from construction shall be completely removed from the job site. Perform Final Dressing Class A on all disturbed areas. Sow all disturbed earthen areas on the right of way and at the waste area at the Ohio County Maintenance Facility with Seed Mixture No. I. Place erosion control blanket on entire disturbed median. Seeding and protection will not be measured for payment but shall be incidental to erosion control blanket, site preparation, and/or restoration.

### **ON-SITE INSPECTION**

Each Contractor submitting a bid for this work shall make a thorough inspection of the site prior to submitting his bid and shall thoroughly familiarize himself with existing conditions so that the work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.

### **CAUTION**

Information shown on the drawings and in this proposal and the types and quantities of work listed are not to be taken as an accurate or complete evaluation of the material and conditions to be encountered during construction. The bidder must draw his own conclusion as to the conditions encountered. The department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation if the conditions encountered are not in accordance with the information shown.

### **PROPERTY DAMAGE**

The Contractor shall be responsible for all damage to public and/or private property resulting from his work. All disturbed features shall be restored in like kind materials and design to the existing or proposed grades, as applicable, at no additional cost to the Department.

### **COORDINATION OF WORK**

The Contractor is advised that other projects may be in progress within or in the near vicinity of this project. The Contractor shall coordinate the work on this project with the work of the other contractors. In case of conflict, the Engineer shall determine the relative priority to give to work phasing.



## **UTILITY CLEARANCE**

Work around and do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Working days will not be charged for those days on which work on the controlling item is delayed, as provided in the Specifications. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work.

**SPECIAL NOTES FOR INSTALLATION OF  
METAL SNOWPLOWABLE PAVEMENT MARKERS  
FURNISHED BY CONTRACTOR  
FD04 092-9001-065-084**

Pavement markers shall comply with Section 840 of the 2000 Standard Specifications and Standard Drawing No. TSC-400. Installation, location and spacing shall be in accordance with Section 712 and Standard Drawing Nos. TSC-300, TSC-301, TSC-302, TSC-305, TSC-310, TSC-315, TSC 316, TSC 317, TSC 320, and TSC 325. Contrary to Section 840, the red portion of the lens in the bi-directional (white/red) marker may utilize a plastic shield in lieu of untempered glass.

Flush-mounted Type IV-A markers shall be used to delineate the lane lines, centerlines and edgelines when pavement markers are to be installed on bridge decks. Type V markers are not to be installed on bridge decks.

**CERTIFICATION**

The Contractor shall provide the following certification from the manufacturer of the castings. This certification must be submitted along with the bid:

The purchase of the snowplowable castings conveys to the Department of Highways, or its designated agent, the right to remove, reclaim, clean, and reuse these castings in any manner designated by the Department. The manufacturer shall hold no claim for any type of claims of patent infringement.

\_\_\_\_\_  
Manufacturer or  
Designated Agent of Manufacturer

# **TRAFFIC CONTROL FOR THERMOPLASTIC PAVEMENT MARKINGS**

**FD04 092-9001-065-084**

The installation of thermoplastic pavement striping shall be accomplished as follows:

## **TWO-LANE, TWO-WAY ROADWAYS:**

On two-lane, two-way roadway sections, lane closures shall be considered short-duration operations. All work shall be accomplished in only one lane and shall affect the adjacent lane as little as possible. Egress and ingress shall be provided to all ramps, side roads, and entrances at all times.

Approaches to the immediate work area shall be signed in accordance with Lane Closure Case I-A. All signs may be installed on temporary mountings.

All work vehicles used in the roadway shall be equipped, as a minimum, with strobe lights or rotating beacons. If equipped with a flashing arrow board, the board shall be used in caution mode, but shall not indicate a flashing arrow. The use of a truck mounted attenuator will not be required on two-lane, two-way roadway sections.

## **MULTI-LANE ROADWAYS:**

On multi-lane roadway sections, the thermoplastic striping operation may be performed behind stationary lane closures or as a mobile operation. Egress and ingress shall be provided to all ramps, side roads, and entrances at all times.

Stationary lane closures shall be approved by the Engineer and shall be signed in accordance with Lane Closure Cases II and IV. A truck mounted attenuator shall be required on multi-lane roadways. The location of the TMA within the lane closure shall be as specified by the Engineer.

No more than one lane of traffic plus 24 inches maximum of only one adjacent lane shall be closed per direction of travel. A minimum lane width of 10 feet should be maintained. The length of a lane closure shall not exceed 1 mile in urban areas nor 3 mile in rural areas. Consecutive lane closures shall be permitted only if separated by a minimum of 2 miles and must be affecting the same lane.

If a mobile operation is utilized, it shall conform to the attached traffic control drawings for "Thermoplastic Operations Cases I, II, III, and IV".

**PART II**

**SPECIAL PROVISIONS APPLICABLE TO PROJECT**

**SPECIAL PROVISION NO.**

**TITLE**

13            Crash Cushions (4-5-2000)

\*

\* These Special Provisions are included in the Supplemental Specifications.

**PART III**

**EMPLOYMENT, WAGE AND RECORD REQUIREMENTS**  
**(Copies of each Attached)**

1.     Schedule of Minimum Wages Established for the Project.
2.     Labor and Wage Requirements, applicable to other than Federal-Aid System  
Contracts.   (Rev. 2-16-95)
3.     Executive Branch Code of Ethics.

**TRANSPORTATION CABINET  
DIVISION OF CONTRACT PROCUREMENT  
COMPLIANCE SECTION**

**SHEET ONE  
LETTING: 04-25-2003**

**PROJECT WAGE RATES**

**OHIO COUNTY, FD04 092 9001 065-084**

The Western Kentucky Parkway (PW 9001)

Asphalt Surface and Median Reconstruction

	<b>HIGHWAY BASIC HOURLY RATES</b>	<b>FRINGE BENEFIT PAYMENTS COMBINED</b>
<b>CRAFTS</b>		
Ballard, Butler, Caldwell, Carlisle, Crittenden, Daviess, Edmonson, Fulton, Graves, Hancock, Henderson, Hickman, Hopkins, Livingston, Lyon, Marshall, McCracken, McLean, Muhlenberg, Ohio, Union & Webster Counties:		
Bricklayers.....	24.15	6.55
Allen, Calloway, Christian, Logan, Simpson, Todd, Trigg & Warren Counties:		
Bricklayers.....	20.16	1.60
All Counties:		
Carpenters .....	21.45	6.13
Piledrivermen.....	21.70	6.13
Divers.....	32.55	6.13
Butler, Edmonson, Logan, Todd & Warren Counties:		
Electricians.....	24.25	8.24
Allen & Simpson Counties:		
Electricians.....	15.85	4.115
Ballard, Caldwell, Calloway, Carlisle, Christian, Crittenden, Fulton (Except a 5 mile radius of City Hall in Fulton), Graves, Hickman, Livingston, Lyon, Marshall, McCracken & Trigg Counties:		
Electricians:		
Electricians.....	23.58	9.06
Cable Splicers.....	23.83	9.06
Daviess, Hancock, Henderson, Hopkins, McLean, Muhlenberg, Ohio, Union & Webster Counties:		
Electricians:		
Electricians.....	23.45	8.59
Heilarc Welding & Cable Splicing.....	23.70	8.64
Fulton County (Up to a 5 mile radius of City Hall in Fulton):		
Electricians.....	18.94	9.00
Cable Splicers.....	19.44	9.00
Butler County (Eastern eighth, including the Townships of Decker, Lee & Tilford);		
Edmonson County (Northern three-fourths, including the Townships of Asphalt, Bee Spring, Brownsville, Grassland, Huff, Kyrock, Lindseyville, Mammoth Cave, Ollie, Prosperity, Rhoda, Sunfish & Sweden):		
Ironworkers:		
Structural; Ornamental; Reinforcing;		
Precast Concrete Erectors.....	23.25	10.87
Butler County (Townships of Aberdeen, Bancock, Casey, Dexterville, Dunbar, Elfie, Gilstrap, Huntsville, Logansport, Monford, Morgantown, Provo, Rochester, and South Hill & Welchs Creek); Caldwell County (Northeastern third, including the Township of Creswell); Christian County (Northern third, including Townships of Apex, Crofton, Kelly, Mannington and Wynns); Crittenden County (Northeastern half, including the Townships of Grove, Mattoon, Repton, Shady Grove and Tribune); Muhlenberg County (Townships of Bavier, Beech Creek Junction, Benton, Brennen, Browder, Central City, Cleaton, Drakesboro, Depoy, Eunis, Graham, Hillside, Luzerne, Lynn City, Martwick, McNary, Moorman, Millport, Nelson, Paradise, Powderly, South Carrollton, Tarina and Weir);		

**TRANSPORTATION CABINET  
DIVISION OF CONTRACT PROCUREMENT  
COMPLIANCE SECTION**

**PROJECT WAGE RATES**

**SHEET TWO 04-25-2003**

**OHIO COUNTY, FD04 092 9001 065-084**

<b>CRAFTS (continued)</b>	<b>HIGHWAY BASIC HOURLY RATES</b>	<b>FRINGE BENEFIT PAYMENTS COMBINED</b>
Daviess, Hancock, Henderson, Hopkins, McLean, Ohio, Union and Webster Counties:		
Ironworkers.....	24.20	9.90
Butler County (Southern third, including the Townships of Boston, Berrys Lick, Dimple, Jetson, Quality, Sharer, Sugar Grove and Woodbury);		
Christian County (Eastern two-thirds, including the Townships of Bennettstown, Casky, Herndon, Hopkinsville, Howell, Masonville, Pembroke and Thompsonville);		
Edmonson County (Southern fourth, including the Townships of Chalybeate & Rocky Hill);		
Muhlenberg County (Southern eighth, including the Townships of Dunnior, Penrod & Rosewood);		
Allen, Logan, Simpson, Todd and Warren Counties:		
Ironworkers.....	18.22	6.18
Caldwell County (Southwestern two-thirds, including the Townships of Cedar Bluff, Cider, Claxton, Cobb, Crowtown, Dulaney, Farmersville, Fredonia, McGowan, Otter Pond and Princeton);		
Christian County (Western third, excluding the Townships of Apex, Crofton, Kelly, Mannington, Wynns, Bennettstown, Casky, Herndon, Hopkinsville, Howell, Masonville, Pembroke and Thompsonville);		
Crittenden County (Southwestern half, including the Townships of Crayne, Dycusburg, Frances, Marion, Mexico, Midway, Sheridan and Told);		
Ballard, Calloway, Carlisle, Fulton, Graves, Hickman, Livingston, Lyon, Marshall, McCracken and Trigg Counties:		
Ironworkers		
Projects with a total contract cost of \$20,000,000.00 or above		
.....	22.15	10.42
All other work.....	20.85	9.36
Allen, Butler, Edmonson, Logan, Simpson & Warren Counties:		
Millwrights.....	22.25	10.30
Ballard, Caldwell, Calloway, Carlisle, Christian, Crittenden, Fulton, Graves, Hickman, Hopkins, Livingston, Lyon, Marshall, McCracken, Todd & Trigg Counties:		
Millwrights:.....	20.45	8.07
Daviess, Hancock, Henderson, McLean, Muhlenberg, Ohio, Union & Webster Counties:		
Millwrights:.....	20.50	8.97
Ballard County:		
Painters:		
Bridges and Dams.....	25.19	6.98
All Other Work.....	20.89	6.98
Spray, Blast, Steam, High and Hazardous (Including Lead Abatement) and All Epoxy – 1.00 Premium.		

**TRANSPORTATION CABINET  
DIVISION OF CONTRACT PROCUREMENT  
COMPLIANCE SECTION**

**PROJECT WAGE RATES**

**SHEET THREE 04-25-2003**

**OHIO COUNTY, FD04 092 9001 065-084**

<b>CRAFTS (continued)</b>	<b>HIGHWAY BASIC HOURLY RATES</b>	<b>FRINGE BENEFIT PAYMENTS COMBINED</b>
Edmonson County:		
Painters:		
Brush.....	17.02.....	5.92
Abrasive Blaster, Fireproofing, Lead Abatement, Spray & Waterblaster 4000 PSI and Above .....	17.52.....	5.92
Daviess, Hancock, Henderson, McLean, Ohio, Union & Webster Counties:		
Painters:		
*Brush & Roller .....	20.30.....	7.73
*Plasterers .....	20.55.....	7.73
*Spray, sandblast, power tools, Waterblast, steamcleaning, brush & roller of mastics, creosotes, kwinch koate & coal tar epoxy.....	21.30.....	7.73
*Spray of mastics, creosotes, kwinch koate & coal tar epoxy.....	22.30.....	7.73
*Bridges, Locks and Dams add 1.15 to base rate.		
Allen, Butler, Logan, Muhlenberg, Simpson, Todd & Warren Counties:		
Painters:		
Brush.....	16.43 .....	5.50
Spray, sandblast, boswain chair or heights over 50 feet .....	16.93 .....	5.50
Caldwell, Calloway, Carlisle, Christian, Crittenden, Fulton, Graves, Hickman, Hopkins, Livingston, Lyon, Marshall, McCracken & Trigg Counties:		
Painters:		
Bridges and Dams.....	22.25 .....	5.50
All Other Work.....	16.00 .....	5.50
Waterblasting units with 3500 PSI and above - \$.50 premium		
Spraypainting and all abrasive blasting - \$1.00 premium		
Work 40 ft. and above ground level - \$1.00 premium		
Allen, Butler, Edmonson, Simpson, Warren Counties:		
Plumbers; Gas Fitters:		
Plumbing contracts less than \$150,000.00 .....	19.92 .....	6.42
All other plumbing contracts .....	24.90 .....	6.42



**TRANSPORTATION CABINET  
DIVISION OF CONTRACT PROCUREMENT  
COMPLIANCE SECTION**

**PROJECT WAGE RATES**

**SHEET FOUR 04-25-2003**

**OHIO COUNTY, FD04 092 9001 065-084**

<b>CRAFTS (continued)</b>	<b>HIGHWAY BASIC HOURLY RATES</b>	<b>FRINGE BENEFIT PAYMENTS COMBINED</b>
Ballard, Caldwell, Calloway, Carlisle, Christian, Crittenden, Fulton, Graves, Hickman, Livingston, Lyon, Marshall, McCracken & Trigg Counties:		
Plumbers & Steamfitters .....	23.68	9.51
Allen, Butler, Edmonson, Simpson & Warren Counties:		
Pipefitters & Steamfitters .....	25.90	8.98
Daviess, Hancock, Henderson, Hopkins, Logan, McLean, Muhlenberg, Ohio, Todd, Union & Webster Counties:		
Plumbers & Pipefitters .....	23.29	7.73
Welders - Receive rate for craft in which welding is incidental.		

**LABORERS:**

Aging & curing of concrete, asbestos abatement worker, asphalt plant, asphalt, batch truck dump, carpenter tender, cement mason tender, cleaning of machines, concrete, demolition, dredging, environmental -nuclear radiation, toxic & hazardous waste - Level D, flagperson, grade checker, hand digging & hand back filling, highway marker placer, landscaping, mesh handler & placer, puddler, railroad, rip-rap & grouter, right-of-way, sign, guard rail & fence installer, signal person, sound barrier installer, storm & sanitary sewer, swamper, truck spotter & dumper & wrecking of concrete form.

<b>BASE RATE</b> .....	16.34
<b>FRINGE BENEFITS</b> .....	7.38

Batter board man (sanitary & storm sewer), brickmason tender, mortar mixer operator, burner & welder, bushhammer, chain saw operator, concrete saw operator, deckhand scow man, dry cement handler, environmental - nuclear, radiation, toxic & hazardous waste - Level C, forklift operator for masonry, form setter, green concrete cutting, hand operated grouter & grinder machine operator, jackhammer, pavement breaker, paving joint machine, pipelayer, plastic pipe fusion, power driven georgia buggy & wheel barrow, power post hole digger, precast manhole setter, walk-behind tamper, walk-behind trencher, sand blaster, concrete chipper, surface grinder, vibrator operator and wagon driller.

<b>BASE RATE</b> .....	16.59
<b>FRINGE BENEFITS</b> .....	7.38

**TRANSPORTATION CABINET  
DIVISION OF CONTRACT PROCUREMENT  
COMPLIANCE SECTION**

**PROJECT WAGE RATES**

**SHEET FIVE 04-25-2003**

**OHIO COUNTY, FD04 092 9001 065-084**

	<b>HIGHWAY BASIC HOURLY RATES</b>	<b>FRINGE BENEFIT PAYMENTS COMBINED</b>
<b><u>LABORERS:</u> (continued)</b>		
Air track driller, asphalt lutean & raker, gunnite nozzleman, gunnite operator & mixer, grout pump operator, powderman & blaster, side rail setter, rail paved ditch, screw operator, tunnel (free air), and water blaster .		

<b>BASE RATE</b> .....	16.64
<b>FRINGE BENEFITS</b> .....	7.38

Caisson worker (free air), cement finisher, environmental - nuclear, radiation, toxic & hazardous waste - levels A & B, miner & driller (free air), tunnel blaster and tunnel mucker (free air).

<b>BASE RATE</b> .....	17.24
<b>FRINGE BENEFITS</b> .....	7.38

**TEAMSTERS:**

Allen, Butler, Edmonson, Logan, Simpson & Warren Counties:  
Greaser, tire changer.

<b>BASE RATE</b> .....	16.84
<b>FRINGE BENEFITS</b> .....	8.34

Truck Mechanic.

<b>BASE RATE</b> .....	17.17
<b>FRINGE BENEFITS</b> .....	8.34

Single axle dump and flatbed, terrain vehicle when used to haul materials, semi-trailer or pole trailer when used to pull building materials and equipment, tandem axle dump, distributor, & mixer.

<b>BASE RATE</b> .....	17.24
<b>FRINGE BENEFITS</b> .....	8.34

**TRANSPORTATION CABINET  
DIVISION OF CONTRACT PROCUREMENT  
COMPLIANCE SECTION**

**PROJECT WAGE RATES**

**SHEET SIX 04-25-2003**

**OHIO COUNTY, FD04 092 9001 065-084**

	<b>HIGHWAY BASIC HOURLY RATES</b>	<b>FRINGE BENEFIT PAYMENTS COMBINED</b>
<b><u>TEAMSTERS:</u> (continued)</b>		
Euclid and other heavy earthmoving equipment & lowboy, articulator cat truck & 5 axle vehicle, winch & A-Frame when used in transporting materials, Ross Carrier, forklift truck when used to transport building materials and drivers on pavement breaker.		
	<b>BASE RATE</b> .....	17.30
	<b>FRINGE BENEFITS</b> .....	8.34
Ballard, Calloway, Caldwell, Carlisle, Christian, Crittenden, Fulton, Graves, Hickman, Livingston, Lyon, Marshall, McCracken, Todd & Trigg Counties: Greaser, tire changer.		
	<b>BASE RATE</b> .....	21.99
	<b>FRINGE BENEFITS</b> .....	3.95
Truck Mechanic.		
	<b>BASE RATE</b> .....	22.22
	<b>FRINGE BENEFITS</b> .....	3.95
Single axle dump and flatbed, terrain vehicle when used to haul materials, semi-trailer or pole trailer when used to pull building materials and equipment, tandem axle dump, distributor, & mixer.		
	<b>BASE RATE</b> .....	22.29
	<b>FRINGE BENEFITS</b> .....	3.95
Euclid, other heavy earthmoving equipment & lowboy, articulator cat truck & 5 axle vehicle, winch & A-Frame when used in transporting materials, Ross Carrier, forklift truck when used to transport building materials and drivers on pavement breaker.		
	<b>BASE RATE</b> .....	22.30
	<b>FRINGE BENEFITS</b> .....	3.95

**TRANSPORTATION CABINET  
DIVISION OF CONTRACT PROCUREMENT  
COMPLIANCE SECTION**

**PROJECT WAGE RATES**

**SHEET SEVEN 04-25-2003**

**OHIO COUNTY, FD04 092 9001 065-084**

	<b>HIGHWAY BASIC HOURLY RATES</b>	<b>FRINGE BENEFIT PAYMENTS COMBINED</b>
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**TEAMSTERS:** (continued)

Daviess, Hancock, Henderson, Hopkins, McLean, Muhlenberg, Ohio, Union & Webster Counties:  
Greaser, tire changer.

**BASE RATE**..... 18.53  
**FRINGE BENEFITS** ..... 9.00

Truck Mechanic.

**BASE RATE**..... 18.76  
**FRINGE BENEFITS** ..... 9.00

Single axle dump and flatbed, terrain vehicle when used to haul materials, semi-trailer or pole trailer when used to pull building materials and equipment, tandem axle dump, distributor, & mixer.

**BASE RATE**..... 18.83  
**FRINGE BENEFITS** ..... 9.00

Euclid and other heavy earthmoving equipment & lowboy, articulator cat truck & 5 axle vehicle, winch & A-Frame when used in transporting materials, Ross Carrier, forklift truck when used to transport building materials, drivers on pavement breaker.

**BASE RATE**..... 18.84  
**FRINGE BENEFITS** ..... 9.00

**OPERATING ENGINEERS:**

A-frame winch truck, auto patrol, backfiller, batcher plant, bituminous paver, bituminous transfer machine, boom cat, bulldozer, mechanic, cableway, carry-all scoop, carry deck crane, central compressor plant, clamshell, concrete mixer (21 cu. ft. or over), concrete paver, truck mounted concrete pump, core drill, crane, crusher plant, derrick, derrick boat, ditching and trenching machine, dragline, dredge operator, dredge engineer, elevating grader and loaders, grade-all, guries, heavy equipment robotics operator/mechanic, high lift, hoe-type machine, hoist (two or more drums), hoisting engine (two or more drums), horizontal directional drill operator, hydrocrane, hyster, KeCal loader, LeTourneau, locomotive, mechanically operated laser screed, mechanic welder, mucking machine, motor scraper, orangepeel bucket, piledriver, power blade, pumpcrete, push dozer, rock spreader attached to equipment, rotary drill, roller (bituminous), scarifier, scoopmobile, shovel, side boom, subgrader, tailboom, telescoping type forklift, tow or push boat, tower crane (French, German and other types), tractor shovel, truck crane, tunnel mining machines, including moles, shields or similar types of tunnel mining equipment.

**BASE RATE**..... 21.10  
**FRINGE BENEFITS** ..... 9.15

**One/Federal-State**

**TRANSPORTATION CABINET  
DIVISION OF CONTRACT PROCUREMENT  
COMPLIANCE SECTION**

**PROJECT WAGE RATES**

**SHEET EIGHT 04-25-2003**

**OHIO COUNTY, FD04 092 9001 065-084**

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**HIGHWAY  
BASIC HOURLY  
RATES**

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**FRINGE  
BENEFIT PAYMENTS  
COMBINED**

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**OPERATING ENGINEERS:** (continued)

Air compressor (over 900 cu. ft. per min.), bituminous mixer, boom type tamping machine, bull float, concrete mixer (under 21 cu. ft.), dredge engine, electric vibrator, compactor/self-propelled compactor, elevator (one drum or buck hoist), elevator (when used to hoist building material), finish machine, firemen & hoist (one drum), flexplane, forklift (regardless of lift height), form grader, joint sealing machine, outboard motor boat, power sweeper (riding type), roller (rock), ross carrier, skid mounted or trailer mounted concrete pump, switchman or brakeman, throttle valve person, tractair and road widening trencher, tractor (50 H.P. or over), truck crane oiler, tugger, welding machine, well points, and whirley oiler.

**BASE RATE**..... 18.68  
**FRINGE BENEFITS** ..... 9.15

Greaser on grease facilities servicing heavy equipment.

**BASE RATE**..... 19.06  
**FRINGE BENEFITS** ..... 9.15

Bituminous distributor, burlap and curing machine, cement gun, concrete saw, conveyor, deckhand oiler, grout pump, hydraulic post driver, hydro seeder, mud jack, oiler, paving joint machine, power form handling equipment, pump, roller (earth), steerman, tamping machine, tractor (under 50 H.P.) and vibrator.

**BASE RATE**..... 18.42  
**FRINGE BENEFITS** ..... 9.15

Cranes with booms one hundred fifty feet (150') and over (including jib) \$.50 premium.

Employees assigned to work below ground level are to be paid 10% above basic wage rate. This does not apply to open cut work.

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

These rates are listed pursuant to the Kentucky Determination No. CR-01-I HWY dated October 8, 2001 and/or Federal Decision No. KY020025 dated March 1, 2002, modification #1 dated March 29, 2002, modification #2 dated April 5, 2002, modification #3 dated May 3, 2002, modification #4 dated June 21, 2002, modification #5 dated July 5, 2002, modification # 6 dated August 16, 2002, modification #7 dated September 13, 2002, modification #8 dated October 4, 2002, modification #9 dated November 8, 2002, modification #10 dated January 10, 2003, modification #11 dated January 17, 2003, modification #12 dated January 31, 2003 and modification #13 dated April 4, 2003.

**One/Federal-State**

**TRANSPORTATION CABINET  
DIVISION OF CONTRACT PROCUREMENT  
COMPLIANCE SECTION**

**PROJECT WAGE RATES**

**SHEET NINE 04-25-2003**

**OHIO COUNTY, FD04 092 9001 065-084**

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No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

**TO: EMPLOYERS/EMPLOYEES**

**PREVAILING WAGE SCHEDULE:**

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.

**OVERTIME:**

Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. Wage violations or questions should be directed to the designated Engineer or the undersigned.

Rick Stansel, Director  
Division of Contract Procurement  
Frankfort, Kentucky 40622

TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS

LABOR AND WAGE REQUIREMENTS  
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

- I. Application
- II. Nondiscrimination of Employees (KRS 344)
- III. Payment of Predetermined Minimum Wages
- IV. Statements and Payrolls

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY  
GENERAL ASSEMBLY TO PREVENT  
DISCRIMINATION IN EMPLOYMENT  
KRS CHAPTER 344  
EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy). The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin is a bona fide occupational qualification for employment.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in

any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

III. PAYMENT OF PREDETERMINED  
MINIMUM WAGES

1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.

2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

IV. STATEMENTS AND PAYROLLS

1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.

2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.

3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

Periodic investigations shall be conducted as required to assure compliance with the labor provisions of the contract. Interrogation of employees and officials of the contractor shall be permitted during working hours.

Aggrieved workers, Highway Managers, Assistant District Engineers, Resident Engineers and Project Engineers shall report all complaints and violations to the Division of Contract Procurement.

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit records and information which will aid in determining the true facts relating to the reported violations.

Any person or organization aggrieved by the action taken or the findings established as a result of an informal hearing by the Division of Contract Procurement may request a formal hearing.

4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.

6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.

7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.

8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.

9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.

10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

No Covered employee may be employed on the work except in accordance with the classification set forth in the schedule mentioned above; provided, however, that in the event additional classifications are required, application shall be made by the contractor to the Department of Highways and (1) the Department shall request appropriate classifications and rates from the proper agency, or (2) if there is urgent need for additional classification to avoid undue delay in the work, the contractor may employ such workmen at rates deemed comparable to rates established for similar classifications provided he has made written application through the Department of Highways, addressed to the proper agency, for the supplemental rates. The contractor shall retroactively adjust, upon receipt of the supplemental rates schedule, the wages of any employee paid less than the established rate and may adjust the wages of any employee overpaid.

11. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any work-week in which he is employed on such work, to work in excess of eight hours in any calendar day or in excess of forty hours in such work-week unless such laborer or mechanic receives compensation at a rate not less than one and one half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such work-week. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. This agreement shall be in writing and shall be executed prior to the employee working in excess of eight (8) hours, but not more than ten (10) hours, in any one (1) calendar day.

12. Payments to the contractor may be suspended or withheld due to failure of the contractor

to pay any laborer or mechanic employed or working on the site of the work, all or part of the wages required under the terms of the contract. The Department may suspend or withhold payments only after the contractor has been given written notice of the alleged violation and the contractor has failed to comply with the wage determination of the Department of Highways.

13. Contractors and subcontractors shall comply with the sections of Kentucky Revised Statutes, Chapter 337 relating to contracts for Public Works.

Revised 2-16-95



## EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (6) provides:

No present or former public servant shall, within six (6) months of following termination of his office or employment, accept employment, compensation or other economic benefit from any person or business that contracts or does business with the state in matters in which he was directly involved during his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved in state government. This subsection shall not prohibit the performance of ministerial functions, including, but not limited to, filing tax returns, filing applications for permits or licenses, or filing incorporation papers.

KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

**PART IV**

**INSURANCE**

The Contractor shall carry the following insurance in addition to the insurance required by law:

- (1) Contractor's Public Liability Insurance not less than \$100,000.00 for damages arising out of bodily injuries to or death to one person. Not less than \$300,000.00 for damages arising out of bodily injuries to or death to two or more persons.
- (2) Contractor's Property Damages Liability Insurance. Not less than \$100,000.00 for all damages arising out of injury or destruction of property in any one accident. Not less than \$300,000.00 for all damages during the policy period.
- (3) Contractor's Protective Public Liability and Property Damage Insurance. The contractor shall furnish evidence with respect to operations performed for him by subcontractors that he carries in his own behalf for the above stipulated amounts.
- (4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
  - a. "policy contains no deductible clauses."
  - b. "policy contains a \_\_\_\_\_ deductible property  
(amount)  
damage clause but company will pay claim and collect  
the deductible from the insured."
- (5) WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

**PART V**

**STATEMENT OF INCOMPLETED WORK**

1. Status of Active Prime Contracts.

Attached

## 1. STATUS OF ALL INCOMPLETED PRIME CONTRACTS

All active prime contracts must be reported. This includes prime contracts with public and private owners and joint-ventured contracts. The names of the joint venturers must be shown when reporting these projects. A machine or typed listing reporting the status of each contract is acceptable when attached to this report; however, the total amounts on the itemized listing must be reported in the space provided below:

CONTRACT WITH	PROJECT IDENTIFICATION	PRIME CONTRACT AMOUNT	EARNINGS THROUGH LAST APPROVED ESTIMATE	TOTAL AMOUNT OF WORK REMAINING
TOTAL (Attach Summary if not itemized above)		\$	\$	\$

**PART VI**

**BID ITEMS**

**TRANSPORTATION CABINET**

Department of Highways

FRANKFORT, KY 40622

Sheet No: 1

OHIO COUNTY

FD04 092 9001 065-084

PCN: 03-0249

Letting: 4/25/2003

THE BIDDER MUST MAKE THE EXTENSIONS AND ADDITIONS  
SHOWING TOTAL AMOUNT BID USING FIGURES ONLY

Item No.	Code No.	Item	Approximate Quantity	Unit	Unit Price Dollars	Amount Dollars
		ROADWAY QUANTITIES			.	.
1	2237	DITCHING	10,000.00	LIN FT	.	.
2	6511	PAVE STRIPING-TEMP PAINT-6 IN	440,000.00	LIN FT	.	.
3	6542	PAVE STRIPING-THERMO-6 INCH W	243,750.00	LIN FT	.	.
4	6543	PAVE STRIPING-THERMO-6 INCH Y	197,000.00	LIN FT	.	.
5	6551	PAVE STRIPING-TEMP REM TAPE-Y	8,000.00	LIN FT	.	.
6	6550	PAVE STRIPING-TEMP REM TAPE-W	8,000.00	LIN FT	.	.
7	6549	PAVE STRIPING-TEMP REM TAPE-B	4,000.00	LIN FT	.	.
8	6592	PAVEMENT MARKER TYPE V - B W/R	2,560.00	EACH	.	.
9	2775	FLASHING ARROW	8.00	EACH	.	.
10	2562	SIGNS	1,800.00	SQ FT	.	.
11	2653	LANE CLOSURE	4.00	EA	.	.
12	2014	BARRICADE-TYPE III	20.00	EACH	.	.
13	2351	GUARDRAIL-STEEL W BEAM-S FACE	168.00	LIN FT	.	.
14	2367	GUARDRAIL END TREATMENT TYPE 1	53.00	EACH	.	.
15	2396	REMOVE GUARDRAIL END TREATMEN	55.00	EACH	.	.
16	6600	REMOVE PAVEMENT MARKER TYPE V	2,560.00	EACH	.	.
17	1630	REMOVE MEDIAN BOX INLET	50.00	EACH	.	.
18	9818	RECONSTRUCT MEDIAN	86,750.00	LIN FT	.	.
19	0461	CULVERT PIPE-15 INCH	1,806.00	LIN FT	.	.
20	1000	PERFORATED PIPE-4 INCH	371,300.00	LIN FT	.	.
21	1010	NON-PERFORATED PIPE-4 INCH	12,900.00	LIN FT	.	.
22	1020	PERF PIPE HEADWALL TY 1-4 INCH	742.00	EACH	.	.
23	1032	PERF PIPE HEADWALL TY 4-4 INCH	574.00	EACH	.	.
24	1740	CORED HOLE DRAINAGE BOX CON-4"	168.00	EACH	.	.
25	1508	DROP BOX INLET TYPE 5C	77.00	EACH	.	.

**TRANSPORTATION CABINET**

Department of Highways

FRANKFORT, KY 40622

Sheet No: 2

OHIO COUNTY

FD04 092 9001 065-084

**PCN: 03-0249**

Letting: 4/25/2003

THE BIDDER MUST MAKE THE EXTENSIONS AND ADDITIONS  
SHOWING TOTAL AMOUNT BID USING FIGURES ONLY

Item No.	Code No.	Item	Approximate Quantity	Unit	Unit Price Dollars	Amount Dollars
26	8100	CONCRETE-CLASS A (S&F HEADWALL - 15")	14.25	CU YD	.	.
27	8150	STEEL REINFORCEMENT (S&F HEADWALL - 15")	133.00	LB	.	.
28	1440	SLOPED BOX INLET-OUTLET TYPE 1	7.00	EACH	.	.
29	1641	JUNCTION BOX-15 INCH	29.00	EACH	.	.
30	5950	EROSION CONTROL BLANKET	212,100.00	SQ YD	.	.
31	2705	SILT CHECK	85.00	EACH	.	.
32	2708	CLEAN SILT CHECK	170.00	EACH	.	.
33	2701	TEMPORARY SILT FENCE	5,000.00	LIN FT	.	.
34	2709	CLEAN TEMPORARY SILT FENCE	10,000.00	LIN FT	.	.
35	2483	CHANNEL LINING CLASS II	500.00	TON	.	.
36	2677	ASPH PAVE MILLING & TEXTURING	3,000.00	TON	.	.
37	0078	CRUSHED AGGREGATE SIZE NO 2	1,315.00	TON	.	.
38	0001	D G A BASE	7,000.00	TON	.	.
39	0190	LEVELING AND WEDGING PG64-22	750.00	TON	.	.
40	9072	MILLED RUMBLE STRIPS	430,000.00	LIN FT	.	.
41	3240	BASE FAILURE REPAIR	2,100.00	SQ YD	.	.
42	0193	ASPHALT SCRATCH COURSE PG76-22	32,000.00	TON	.	.
43	0212	CL2 ASPH BASE 1.00D PG64-22	13,950.00	TON	.	.
44	0309	CL2 ASPH SURF 0.50D PG64-22	17,000.00	TON	.	.
45	0332	CL3 ASPH SURF 0.50A PG76-22	53,000.00	TON	.	.
46	0338	ASPH PLACEMENT WITH MTV	85,000.00	TON	.	.
47	2726	STAKING	1.00	LP SUM	.	.
48	2650	MAINTAIN AND CONTROL TRAFFIC	1.00	LP SUM	.	.
49	2676	MOBILIZATION FOR MILL & TEXT	1.00	LP SUM	.	.
50	1015	INSP & CERT EDGE DRAIN SYS	1.00	LP SUM	.	.

**TRANSPORTATION CABINET**

Department of Highways

FRANKFORT, KY 40622

Sheet No: 3

OHIO COUNTY

PCN: 03-0249

FD04 092 9001 065-084

Letting: 4/25/2003

THE BIDDER MUST MAKE THE EXTENSIONS AND ADDITIONS  
SHOWING TOTAL AMOUNT BID USING FIGURES ONLY

Item No.	Code No.	Item	Approximate Quantity	Unit	Unit Price Dollars	Amount Dollars
51	2569	DEMOBILIZATION	1.00	LP SUM	.	.
52		TOTAL BID			\$	.



**PART VII**

**CERTIFICATIONS**

- |    |   |          |
|----|---|----------|
| 1. | Provisions Relative to Senate Bill 258 (1994) | Attached |
| 2. | Non-Collusion Certification                   | Attached |
| 3. | Certification of Bid Proposal                 | Attached |

PROVISIONS RELATIVE TO SENATE BILL 258 (1994)

During the performance of the contract, the contractor agrees to comply with applicable provisions of:

1. KRS 136 Corporation and Utility Taxes
2. KRS 139 Sale and Use Taxes
3. KRS 141 Income Taxes
4. KRS 337 Wages and Hours
5. KRS 338 Occupational Safety and Health of Employees
6. KRS 341 Unemployment Compensation
7. KRS 342 Workers Compensation

Any final determinations of a violation by the contractor within the previous five (5) years pursuant to the applicable statutes above are revealed as follows:

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NON-COLLUSION CERTIFICATION

COMMONWEALTH OF KENTUCKY  
COUNTY \_\_\_\_\_  
PROJECT NO. \_\_\_\_\_

I, \_\_\_\_\_, \_\_\_\_\_, under  
(Name of officer signing certification) (Title)

penalty of perjury under the laws of the United States, do hereby certify that

\_\_\_\_\_  
(Insert name of Individual, Joint Venture, Co-partnership, or Corporation submitting bid)

its agent, officers or employees have not directly or indirectly entered into any  
agreement, participated in any collusion, or otherwise taken action in restraint of free  
competitive bidding in connection with this proposal.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

REVISED: 8-23-89

NON-COLLUSION CERTIFICATION

COMMONWEALTH OF KENTUCKY  
COUNTY \_\_\_\_\_  
PROJECT NO. \_\_\_\_\_

I, \_\_\_\_\_, \_\_\_\_\_, under  
(Name of officer signing certification) (Title)

penalty or perjury under the laws of the United States, do hereby certify that

\_\_\_\_\_  
(Insert name of Individual, Joint Venture, Co-partnership, or Corporation submitting bid)

its agent, officers or employees have not directly or indirectly entered into any  
agreement, participated in any collusion, or otherwise taken action in restraint of free  
competitive bidding in connection with this proposal.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

REVISED: 8-23-89

**CERTIFICATION OF BID PROPOSAL**

We (I) propose to furnish all labor, equipment and materials necessary to construct and/or improve the subject project in accordance with the plans, the Transportation Cabinet's Standard Specifications for Road and Bridge Construction, current edition, special provisions, notes applicable to the project as indicated herein and all addenda issued on this project subsequent to purchase of proposal.

We (I) attach a bid proposal guaranty as provided in the special provisions in an amount not less than 5% of the total bid. We agree to execute a contract in accordance with this bid proposal within 15 calendar days after the receipt of the notice of award for the project.

We (I) have examined the site of proposed work, project plans, specifications, special provisions, and notes applicable to the project referred to herein. We understand that the quantities shown herein are estimated quantities subject to increase or decrease as provided in the specifications.

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Name of Contracting Firm

BY: \_\_\_\_\_  
Authorized Agent Title

---

Address City State Zip Code

---

Telephone Number

When two or more organizations bid as a joint venture, enter names of each organization and an authorized agent for each organization must sign above.